



Panasonic®

Operating Instructions Digital High Definition Plasma Television

Model No. **TH-37PX25**
TH-42PX25
TH-50PX25



For assistance, please call : 1-888-VIEW-PTV(843-9788)
or send e-mail to : consumerproducts@panasonic.com
or visit us at www.panasonic.com

(U.S.A.)

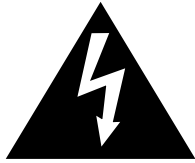
For assistance, please call : 787-750-4300
or visit us at www.panasonic.com

(Puerto Rico)

Before connecting, operating or adjusting this product, please read these instructions completely.
Please keep this manual for future reference.

English

TQB2AA0520



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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.)

WARNING: AS WITH ANY SMALL OBJECT, SD CARDS CAN BE SWALLOWED BY YOUNG CHILDREN. DO NOT ALLOW CHILDREN TO HANDLE THE SD CARD.

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
 2) Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.
 Do not defeat the purpose of the grounding plug.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Television.
 Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.



Manufactured under license from Dolby Laboratories.

“Dolby” and the double-D symbols are trademarks of Dolby Laboratories.



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



: SD Logo is a trademark.



Manufactured under license from BBE Sound, Inc.

Licensed by BBE Sound, Inc. under USP4638258, 4482866, 5510752 and 5736897.

BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patents Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 6,381,747; and 6,516,132.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.



Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma TV.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and record the model number and serial number of your set in the space provided on the back cover of these instructions.

Visit our Panasonic Web Site : www.panasonic.com

<p>For assistance, please call : 1-888-VIEW-PTV(843-9788) or send e-mail to : consumerproducts@panasonic.com or visit us at www.panasonic.com (U.S.A.)</p>
<p>For assistance, please call : 787-750-4300 or visit us at www.panasonic.com (Puerto Rico)</p>

FCC STATEMENT

FCC STATEMENT

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

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

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

Table of Contents

Important Safety Instructions	3	Timer	33
FCC STATEMENT	5	Sleep	33
Safety Precautions	7	Timer	34
Cleaning and maintenance	8	Clock Set	35
Installation	9	Day Set	35
Receiver Location	9	Setup	36
Optional External Equipment	9	Program CH	36
Remote Control Battery Installation	9	Auto Scan	37
Accessories	10	Manual Program	37
Cable Connection	11	Closed Caption	39
Cable Cover Removal and Fitting	12	Other Adjust	41
Antenna Connection	13	CableCARD	41
Cable Box Connection	13	Lock	42
Digital TV - Set-Top Box (DTV-STB) or DVD Connection	14	Password	42
CableCARD Connection	14	Lock Set	42
HDMI Connection	15	Channel Lock	43
VCR Connection	16	Block Program	43
Amplifier Connection (TO AUDIO AMP)	16	How Long?	45
Program Out Connection (PROG OUT)	17	Blocking Messages	45
Connecting Headphones / Earphones	17	Photo Viewer	46
Connecting to the front AV terminals	17	Thumbnail Mode	48
PC Input Terminals Connection	18	Photo Viewer Setup Menu	49
Power ON / OFF	19	Slide Show	49
Location of Controls	19	Rotate	50
The Main Unit	19	Zoom	50
The Illuminated Remote Control	20	Card	50
First Time Setup	22	Photo Viewer Troubleshooting	51
Watching TV programs	23	PIP (Picture in Picture) Operation	52
VHF and UHF	23	SPLIT Operation	54
Cable TV	23	Aspect Controls	56
Menu Navigation	24	PC MENU	57
Picture	26	Operating peripheral equipment using the remote control ...	59
Pic Mode	26	Programming the remote control code	59
Color / Tint / Brightness / Picture / Sharpness / Normal	26	Infrared Code Index	60
Other Adjust	26	Mode Operational Key Chart	63
Audio	28	Troubleshooting Chart	65
Bass / Treble / Balance / Normal	28	VIDEO/COMPONENT/RGB/PC/HDMI input signals ...	66
Other Adjust	28	Specifications	67
Channel	30		
Favorite	30		
Captions	31		

Safety Precautions

WARNING

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.

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. If using some other setting-up method, leave a space of 3 15/16" (10 cm) or more at the top, bottom, left and right, and 3/4" (1.9 cm) or more at the rear.

Avoid installing this product near electronic equipment that easily receives electromagnetic waves.

- It may cause interference in image, sound, etc. In particular, keep video equipment away from this product.

AC Power Supply Cord

The Plasma TV is designed to operate on 120 V AC, 50/60 Hz.

Securely insert the power cord plug as far as it will go.

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

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, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the Plasma TV will not be used for a long period of time, unplug the power cord from the wall outlet.

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.

- Continuous 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. Services to the TV by any unauthorized personnel are 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.

CAUTION

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.)

- Pedestal (included) TY-ST42PX20 (TH-37PX25, TH-42PX25)
TY-ST50PX20 (TH-50PX25)
- Wall-hanging bracket (Vertical) TY-WK42PV3U
- Wall-hanging bracket (Angled) TY-WK42PR2U
- Display stand TY-S37PX20W (TH-37PX25)
TY-S42PX20W (TH-42PX25)
TY-S50PX20W (TH-50PX25)
TY-DP4201W (TH-37PX25, TH-42PX25, TH-50PX25)

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

When using the Plasma TV

Installation

Receiver Location

This unit is intended to be used with an optional stand or entertainment center. Consult your dealer for available options. Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

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

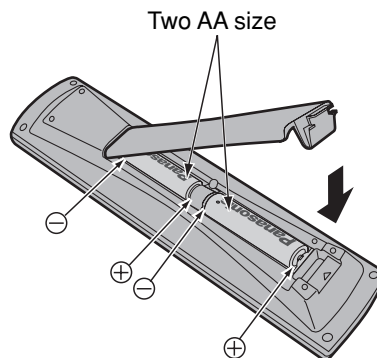
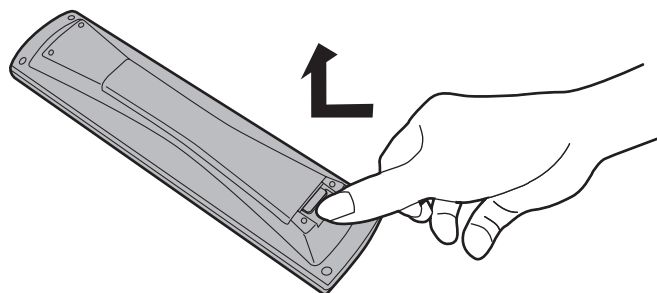
Adequate ventilation is essential to prevent internal component failure. Keep away from areas of excessive heat or moisture.

Optional External Equipment

The Video/Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply store. Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you will need.

Remote Control Battery Installation

1. Open the cover.
2. Install the batteries and replace the cover.
Note the correct polarity (+ and -).



Helpful Hints:

For frequent remote control users, replace old batteries with alkaline batteries for longer life.

Helpful Hints:

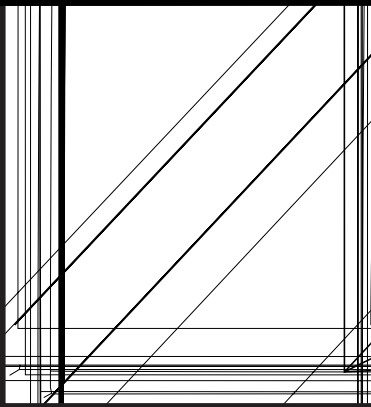
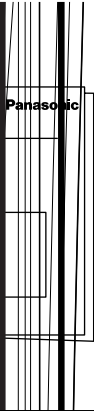
Whenever you remove the batteries, **you may need to reset the remote control infrared codes.** We recommend that you record the code on page 59, prior to setting up the remote control.

⚠️ Caution on battery use

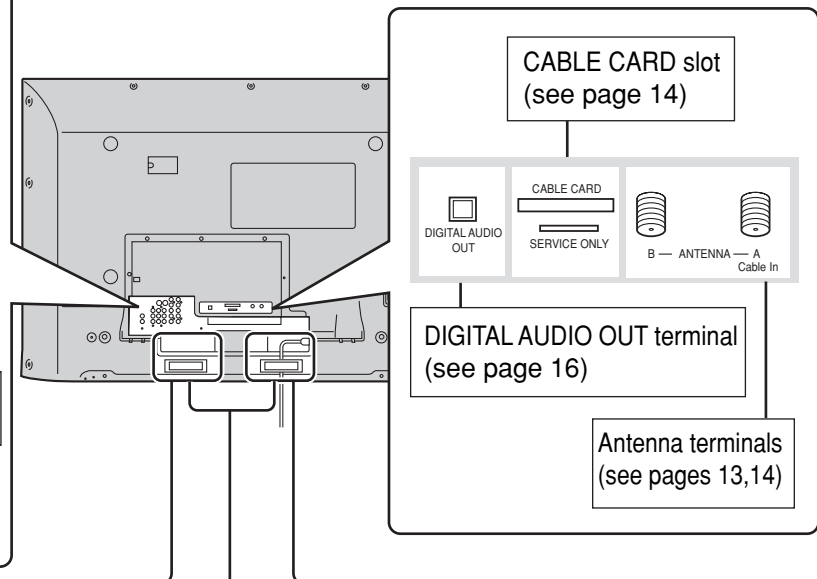
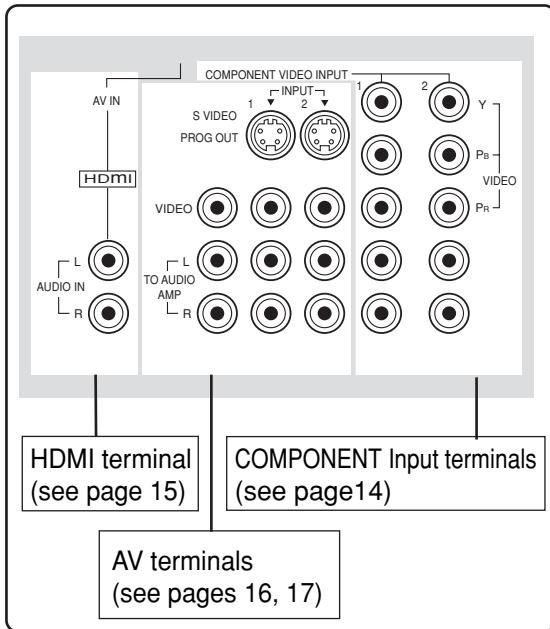
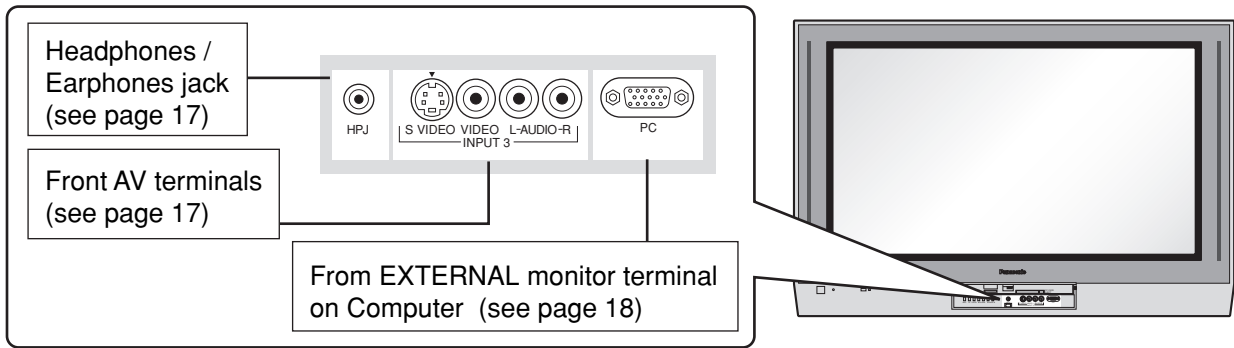
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.

Observe the following precautions:

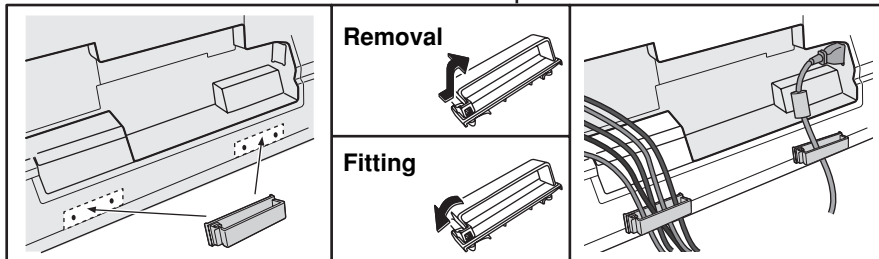
1. Batteries should always be replaced as a pair. Always use new batteries when replacing the old set.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when remote control acts sporadically or stops operating the TV set.



Cable Connection



Clamper



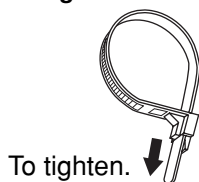
Fastening the power and other cables

Fastening method of other cables

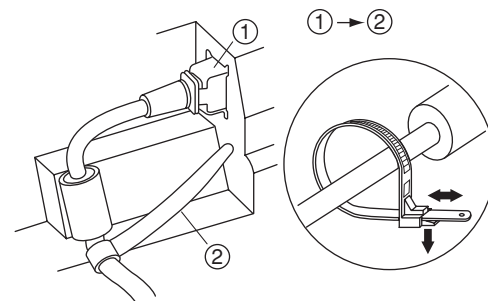
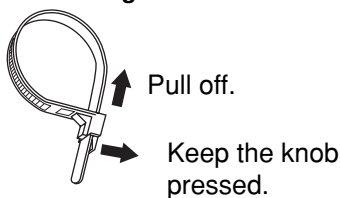
Attach the clamper on the installation hole, and fasten them. Bundle the cable with the cable fastening clamper.

Fastening band

Fastening



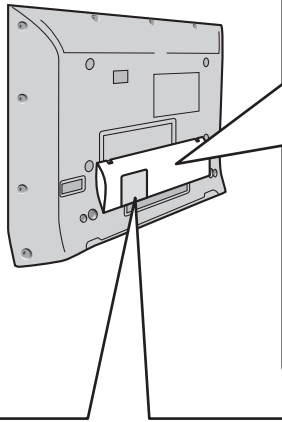
Loosening



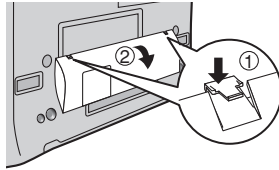
Fastening method of the power cable

1. Insert the power plug into the main body.
2. Fasten with the power cable fastening band.

Cable Cover Removal and Fitting

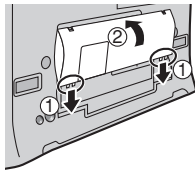


Removal

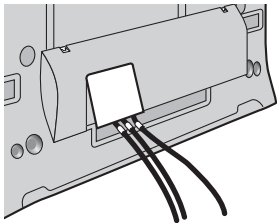


1. Push down hooks and pull the cover slightly towards yourself to disengage the claws (at 4 points).
2. Slowly pull out in the downward direction.

Fitting

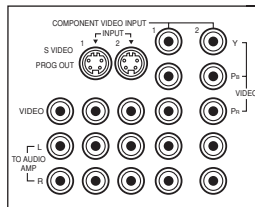


1. Insert the claws (at 4 points) at the bottom end.
2. Push the cover until hooks will be cricked.



(This window cannot close completely if you connect the cables.)

When connecting to the rear AV input/output terminals, connect the cables through this window.



—The rear AV input/output terminals

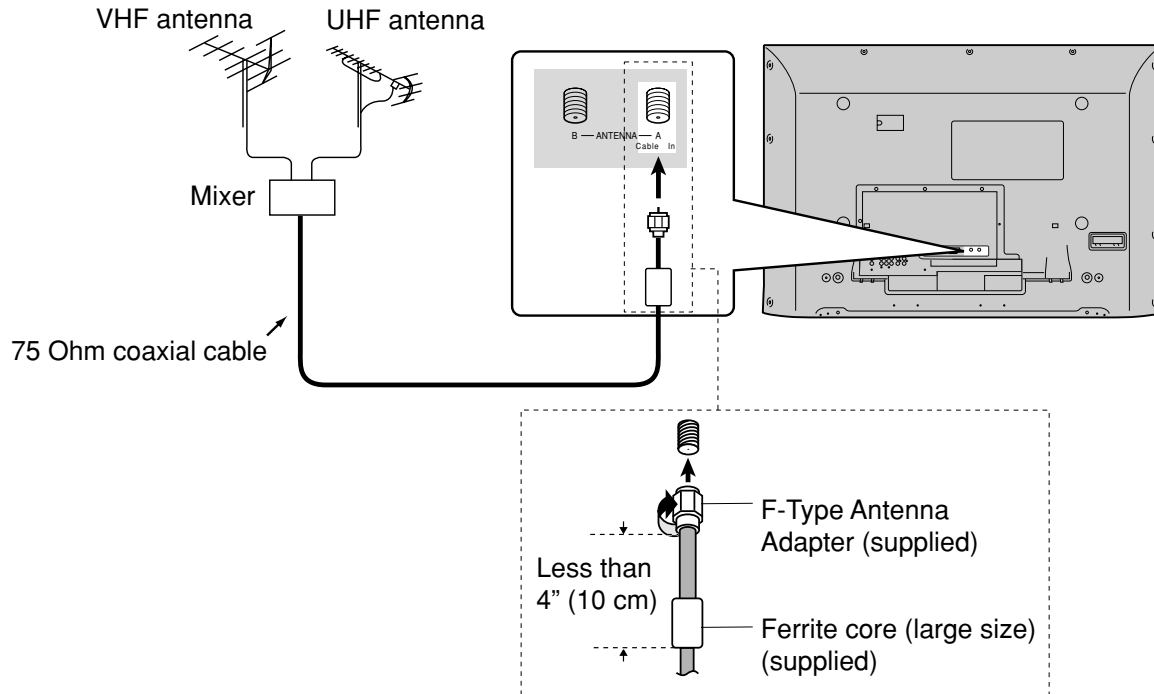
Other cables should be connected before fitting the cable cover.

Note:

Cables and adapters are not supplied with this set unless otherwise indicated.

Antenna Connection

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.
- When you enjoy the terrestrial TV programs only, connect the home antenna to ANTENNA (A).
When you enjoy both the terrestrial TV programs and the cable TV programs, **connect the cable TV's cable to ANTENNA (A), and the terrestrial antenna cable to ANTENNA (B).**
- Select the antenna mode in Input Setup (see page 22).

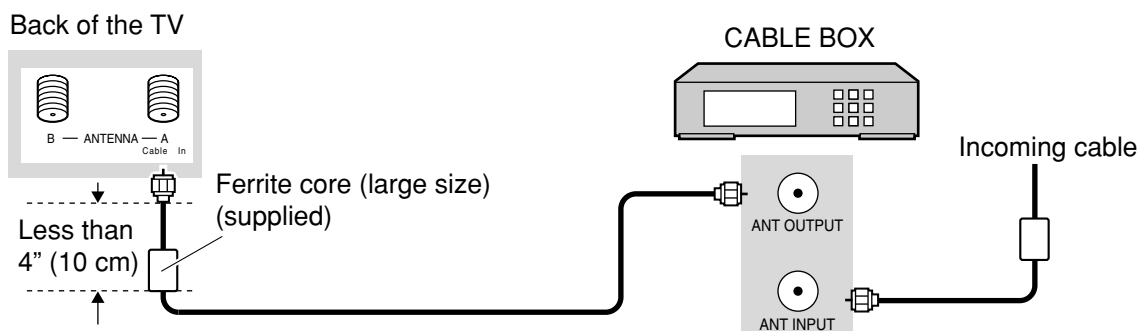


Notes:

- Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local cable company for its compatibility requirements.
- To obtain optimum quality picture and sound, an antenna, the correct cable (75 Ohm coaxial) and the correct terminating plug are required.
- If a communal antenna system is used, you may require the correct connection cable and plug between the wall antenna socket and your television receiver.
- Your local television service centre or dealer may be able to assist you in obtaining the correct antenna system for your particular area and the accessories required.
- Any matters regarding antenna installation, upgrading of existing systems or accessories required, and the costs incurred, are your responsibility.

Cable Box Connection

- When you enjoy the cable TV programs only, connect the cable TV's cable to ANTENNA (A). When you enjoy both the terrestrial TV programs and the cable TV programs, **connect the cable TV's cable to ANTENNA (A), and the terrestrial antenna cable to ANTENNA (B).**
- Select the antenna mode in Input Setup (see page 22).

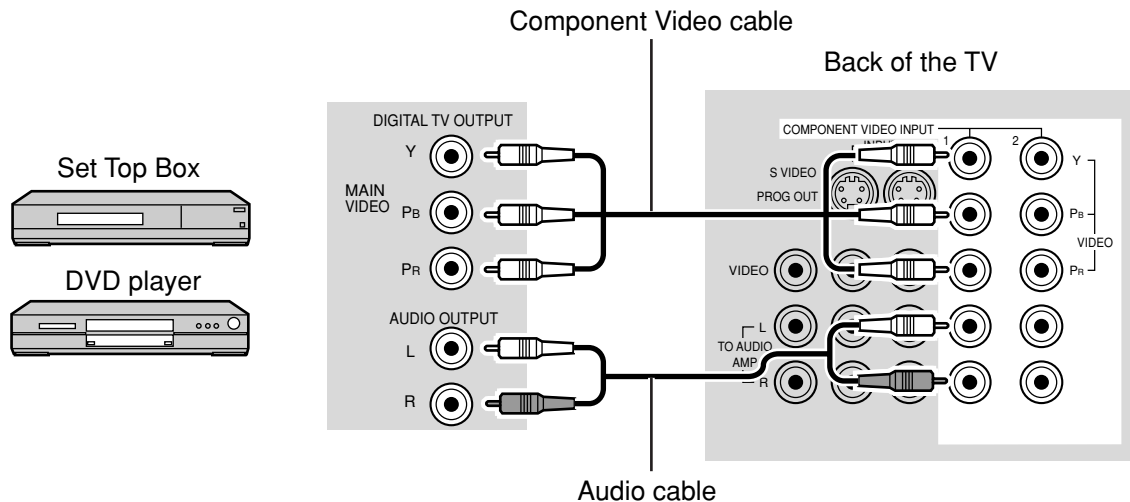


Cable Connection

Digital TV - Set-Top Box (DTV-STB) or DVD Connection

This TV is capable of displaying 1080i and 480p DTV signals when connected to a DTV Tuner Set-Top-Box (STB). This TV also utilizes a progressive scan doubler, which de-interlaces the NTSC signal and progressively scans the image. This allows you to sit close to the TV and not see the thin black horizontal lines (venetian blind effect) associated with interlaced TV pictures.

- To view DTV programs, connect the STB to the component video input terminals (Y, P_B, P_R) of the TV. Component color inputs provide luminance and separate color signal.
- Select the output of the STB to either 1080i or 480p.
- A DTV signal must be available in your area.
- Use a Panasonic DTV-STB (Digital TV-Set-Top Box) or DVD Player.

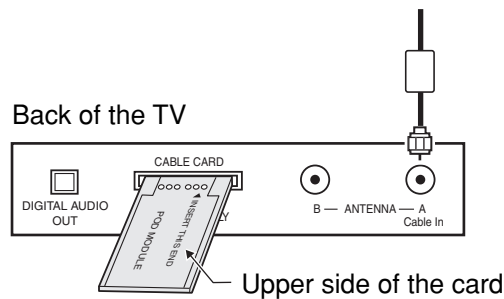


CableCARD Connection

CableCARD allows you to tune digital and high definition cable channels through the cable antenna. Consult your cable company on the availability of CableCARD.

Procedure

1. Connect the cable antenna to ANTENNA (A).
2. Turn the TV on (see page 19).
3. Set the input mode to TV (see page 20).
4. Insert the CableCARD (as it's upper side facing to your side) into CABLE CARD slot on the back of the TV. Follow the messages displayed on the screen.



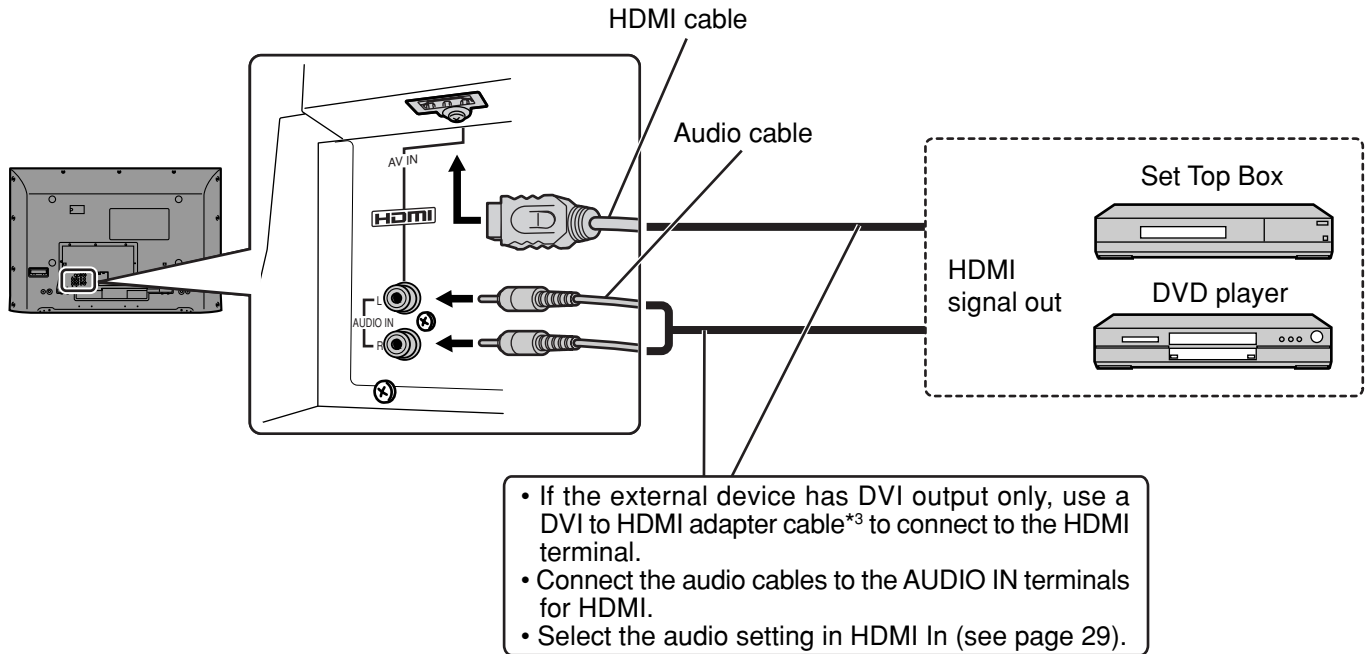
Notes:

- If you experience keyboard or remote control function hang-up when using CableCARD, unplug the TV and plug it back on and try the controls again. If this condition still exists, please call Panasonic Customer Call Center for further instructions.
- Do not insert a PCMCIA card into CABLE CARD slot.

HDMI Connection

HDMI*¹ (High Definition Multi media Interface) is the first all digital consumer electronics A/V interface that supports uncompressed standard. The HDMI terminal supports both video and audio information. To the HDMI*¹ input terminal, you can connect an EIA/CEA-861/861B*² compliant consumer electronic device, such as a Set Top Box or DVD player with HDMI or DVI output terminal.

Input a High-bandwidth Digital Content Protection (HDCP) high-definition picture source to this HDMI terminal, so you can display the high-definition pictures on this TV in the digital form.



Compatible VIDEO Signal

	No. of dots (H × V)	Vertical scanning frequency (Hz)
1080i	1,920 × 1,080i	59.94/60
480p	720 × 480p	59.94/60
	640 × 480p	59.94/60
480i	720(1,440) × 480i	59.94/60

This input terminal is not intended for use with computers.

Compatible sampling frequency of AUDIO signal through HDMI (L.PCM) : 48kHz / 44.1kHz / 32 kHz

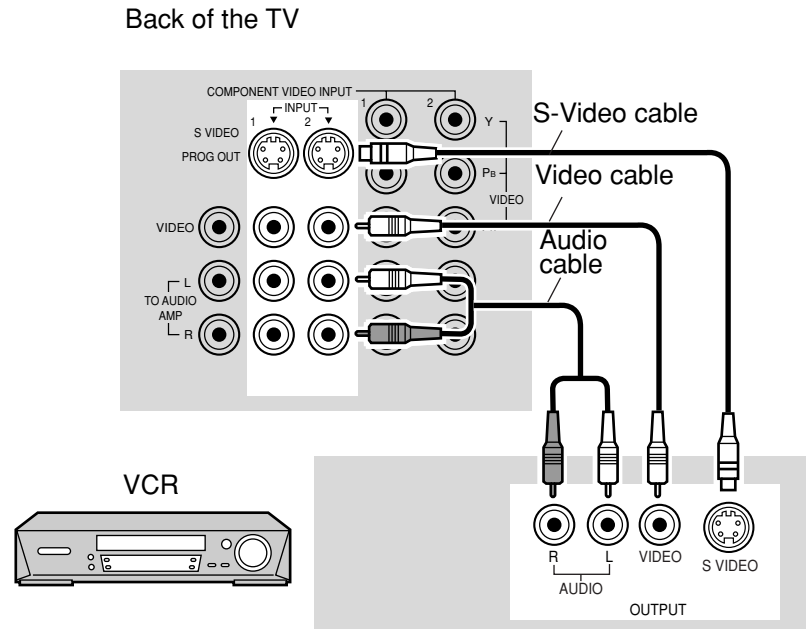
Notes:

- This HDMI connector is Type A.
- If you connect an equipment without a digital output terminal, connect to the COMPONENT VIDEO, S VIDEO or VIDEO input terminal on the TV so you can enjoy an analog signal.
- The DIGITAL IN terminal can only be used with 1080i, 480i or 480p picture signals. Set the Digital Set -Top -Box DIGITAL OUT terminal Output setting to 1080i, 480i or 480p. For detailed information, refer to the Digital Set -Top -Box instruction manual. If you cannot display the picture because your Digital Set -Top -Box does not have a DIGITAL OUT terminal Output setting, use the component Video Input (or the S Video Input or Video Input). In this case the picture will be displayed as an analog signal.

*1. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
 *2. EIA/CEA-861/861B profiles compliance covers profiles for transmission of uncompressed digital video including high bandwidth digital content protection.
 *3. HDMI-DVI conversion cable (TY-SCHO3DH): available on Panasonic Website (www.panasonic.com). Consult your consumer electronics dealer for availability details.

Cable Connection

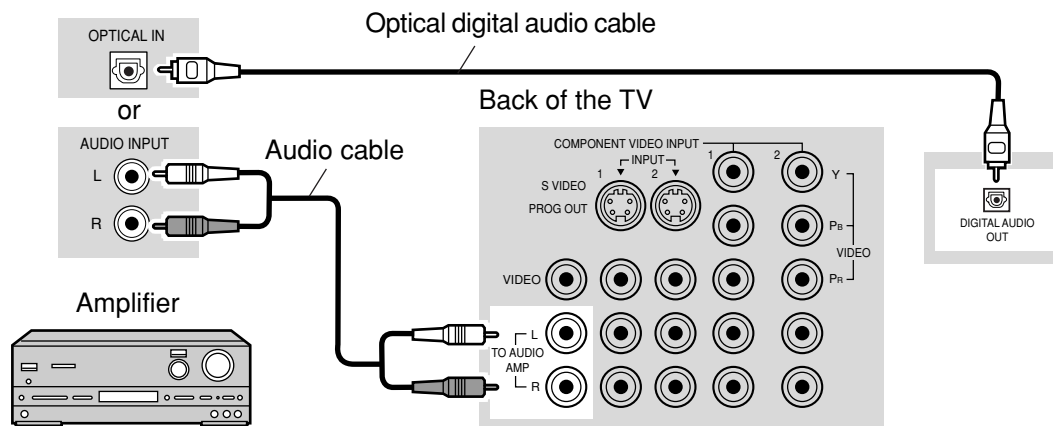
VCR Connection



Amplifier Connection (TO AUDIO AMP)

For a full Home Theater sound experience, an external Dolby Digital® decoder and a multichannel amplifier must be connected to the DIGITAL AUDIO OUT terminal on the TV.

*Dolby Digital 5.1 channel surround sound delivers digital-quality sound. Dolby Digital provides five discrete full-bandwidth channels for front left, front right, center, surround left and surround right, plus a LFE (Low Frequency Effect) subwoofer channel.



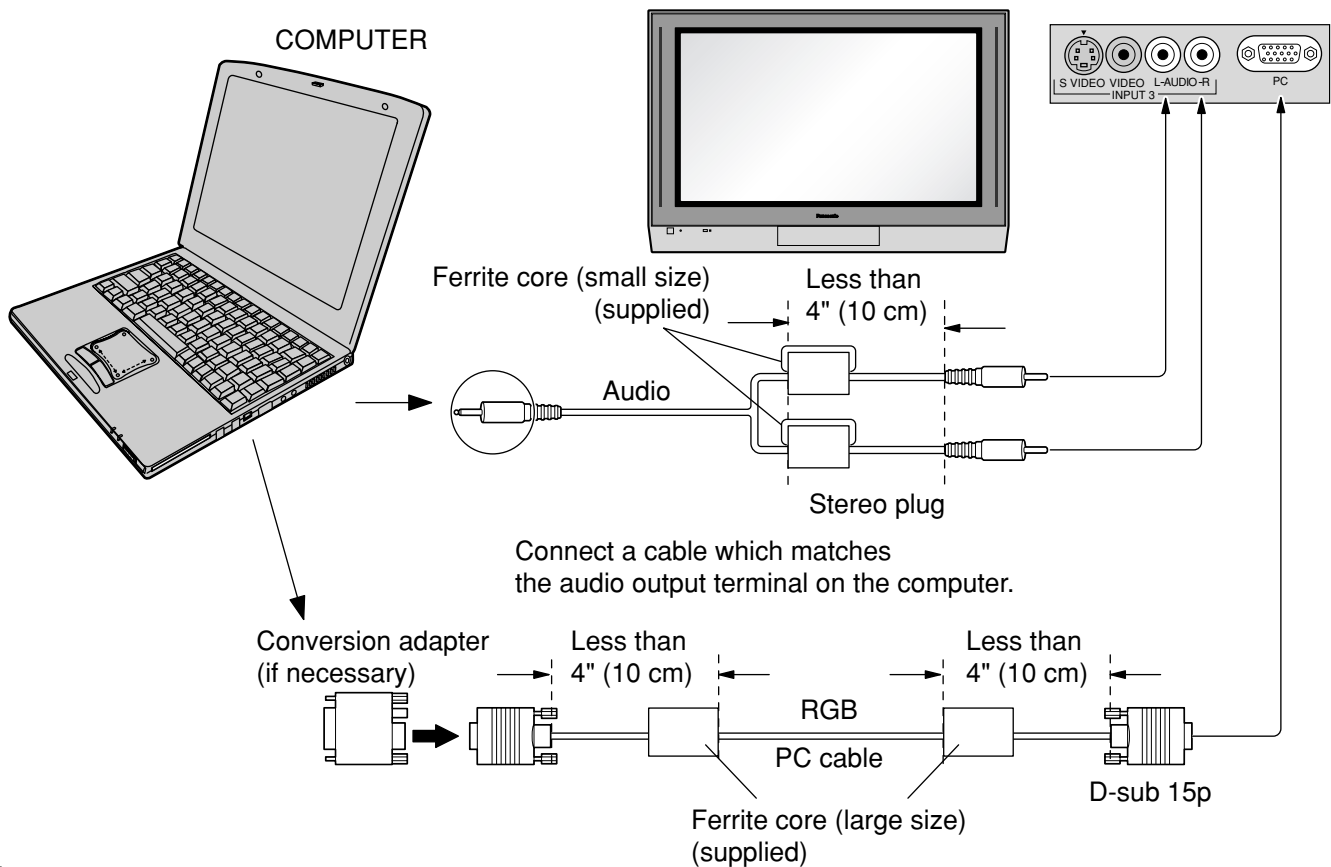
Procedure

1. Select Speakers "Off" in Audio menu (see page 29).
2. Adjust the amplifier volume to the desired level.

Notes:

- External speakers cannot be connected directly to TO AUDIO AMP 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.

PC Input Terminals Connection



Notes:

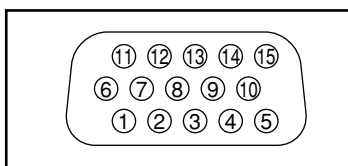
- (1) Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- (2) The maximum resolution:

Model	Aspect	
	4:3	16:9
TH-37PX25	768 × 720	1,024 × 720
TH-42PX25	768 × 768	1,024 × 768
TH-50PX25	1,024 × 768	1,366 × 768

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

- (3) Some PC models cannot be connected to the set.
- (4) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.
- (5) The computer shown in the illustration is for example purposes only.
- (6) Additional equipment and cables shown are not supplied with this set.
- (7) Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.

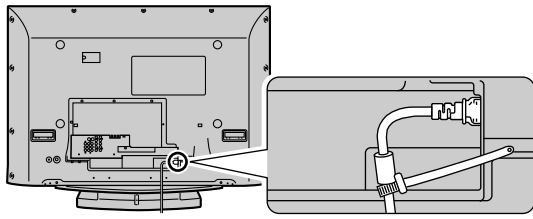
Signal Names for D-sub 15P Connector



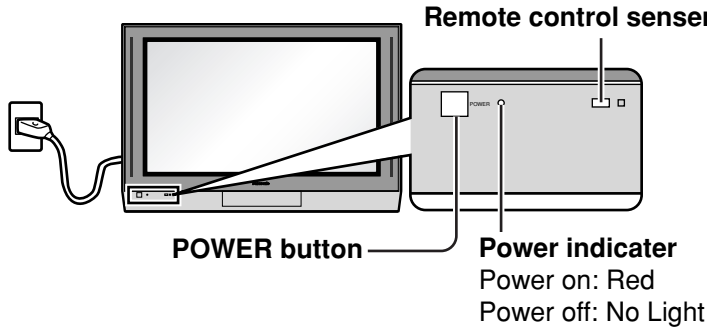
Pin Layout for PC Input Terminal

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


Power ON / OFF



- 1 Connect the AC cord plug to the Plasma TV.
 - Fix the power cord plug securely with the clasper (see page 11).

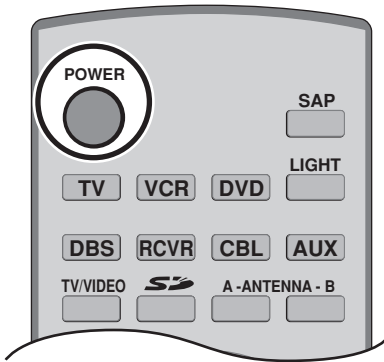


- 2 Connect the plug to the wall outlet.

- 3  Press to turn the TV on or off.

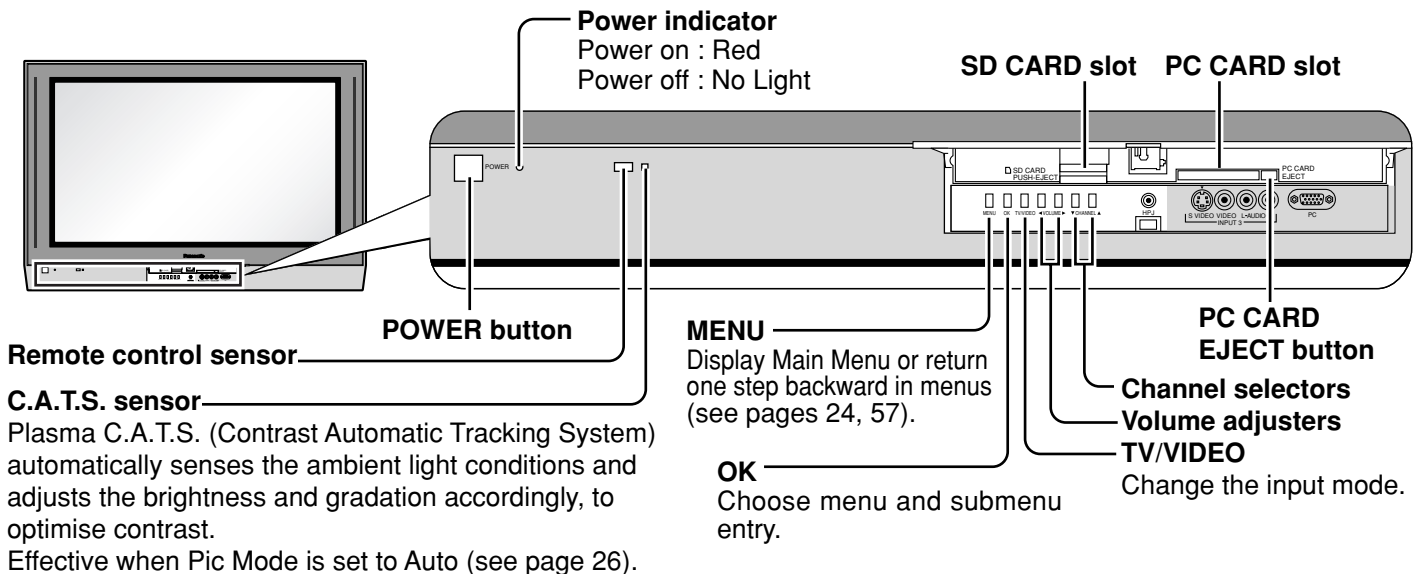
Note:

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



Location of Controls

The Main Unit



Remote control sensor

C.A.T.S. sensor
 Plasma C.A.T.S. (Contrast Automatic Tracking System) automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimise contrast.
 Effective when Pic Mode is set to Auto (see page 26).

Location of Controls

The Illuminated Remote Control

POWER

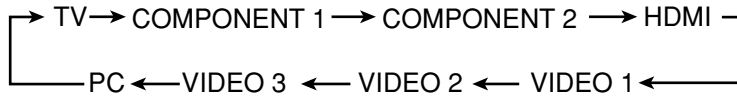
Turn the TV ON or OFF.

Mode Selection buttons (see page 59)

- TV:** TV
- VCR:** VCR
- DVD:** DVD
- DBS:** Digital Broadcasting Satellite
- RCVR:** Receiver/Amplifier
- CBL:** Cable TV
- AUX:** Aux

TV/VIDEO

Change the input mode.



SD

Access Photo Viewer (see page 48).

R-TUNE

Switch to previously viewed channel and input modes.

PIP MIN, PIP MAX
Change the size of PIP frame (see page 52).

Operation of other Device (see pages 63, 64)

SEARCH
Display search frames during PIP or SPLIT operation (see pages 53, 55).

PIP CH
Select the channel during PIP or SPLIT operation (see pages 52, 54).

FREEZE
Freeze the picture (see pages 53, 55).

PIP
PIP (Picture in Picture) Operation (see page 52)

SPLIT
Split Screen (see page 54)

MOVE
Move PIP frame (see page 53).

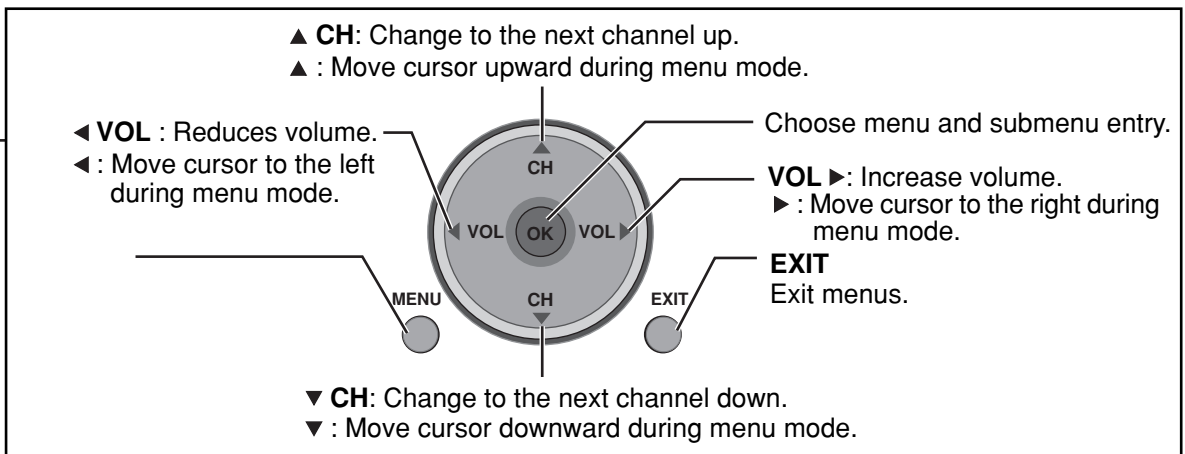
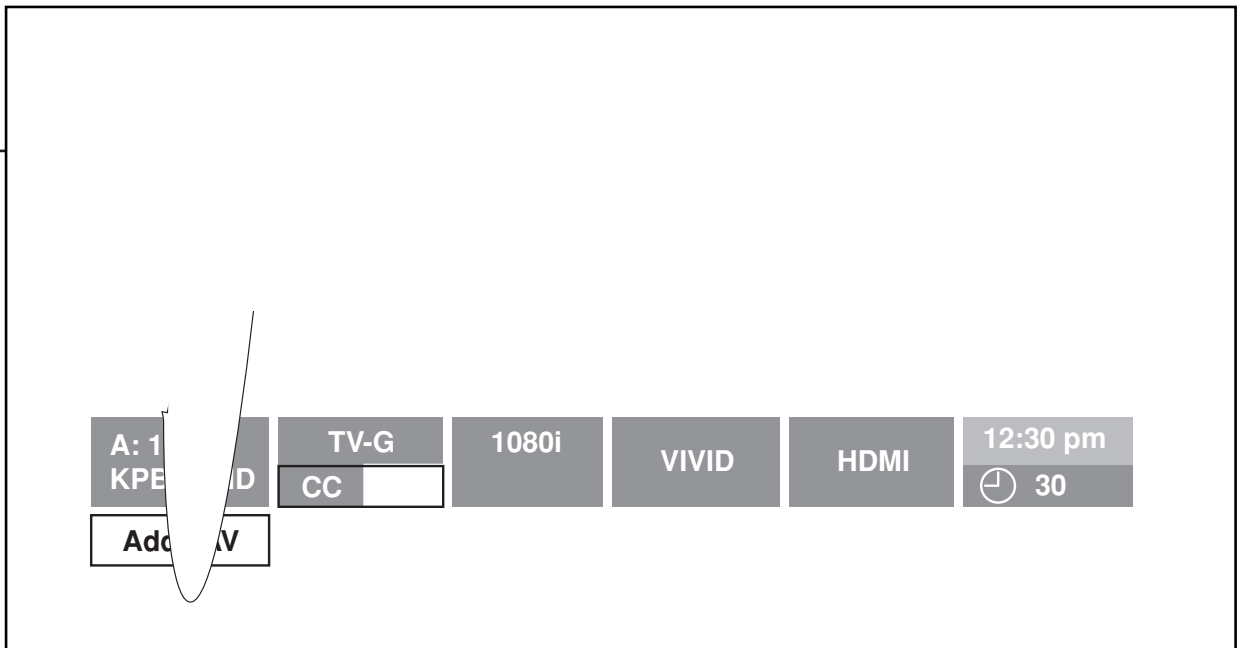
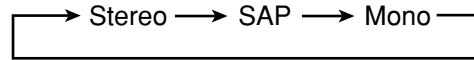
SWAP
Swap pictures in PIP or SPLIT operation (see page 52, 54).



SAP

- Digital channel
Select the audio track (if available).

- Analog channel
Cycle through different audio modes.
ex. If receiving Stereo, SAP and Mono or receiving Stereo and Mono only:



First Time Setup

For your convenience, First Time Setup menu will be displayed on screen when the set is turned on for the first time. If needed, follow the menus and procedures displayed on-screen for setting up the features. You can also make the settings in Setup menu (see pages 36, 37).



Input Setup

Select the configuration of RF input depending on the signal source.

First Time Setup		
Input Setup	Setting	Cable/Antenna
Auto Scan		

- Press to select Input Setup.
 - Press to select Cable only, Cable/Antenna or Antenna only.
 - Press to enter your selection.
- Press to start the Auto Scan. All available channels with a signal will be programmed into memory.

Auto Scan

This feature allows you to selectively auto scan channels. You can scan All, Analog only channels or Analog & Digital channels.

- Press to select Auto Scan.
 - Press to enter the sub-menu field.
- Press to select the sub-menu.
 - Press to start Auto Scan. After Auto Scan is completed, the TV tunes to the first channel found during Auto Scan.

First Time Setup	
Input Setup	Scan All
Auto Scan	Antenna (A) Analog
	Antenna (A) Analog & Digital
	Antenna (B) Analog
	Antenna (B) Analog & Digital

To return to the previous menu

Press .

To exit the menu screen

Press .



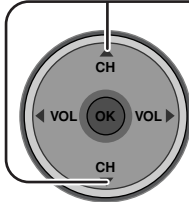
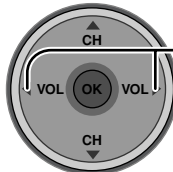
Notes:

- If the EXIT button is pressed at anytime during Auto Scan, Auto Scan will be cancelled and the TV will return to the First Time Setup menu.
- If a CableCARD is present during the First Time Setup and Antenna (A) is set to cable, Antenna (A) will not be scanned due to the CableCARD providing the channel map.

Watching TV programs

VHF and UHF



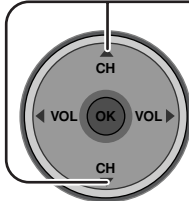


-  Press to operate the TV set with the remote control.
-  Press to turn the TV on.
-  Press to select desired channel.
-  Select the desired volume level.

Notes:

- The channel number and volume level remain the same even after the TV is turned off.
- Power consumption and howling sound can be reduced if the volume level is lowered.

Cable TV

Make sure that registration with cable TV provider and connection of equipment are completed.

-  Select the TV channel 3 or 4.
-  Press to operate the cable box with the remote control.
-  Press to turn the cable box on.

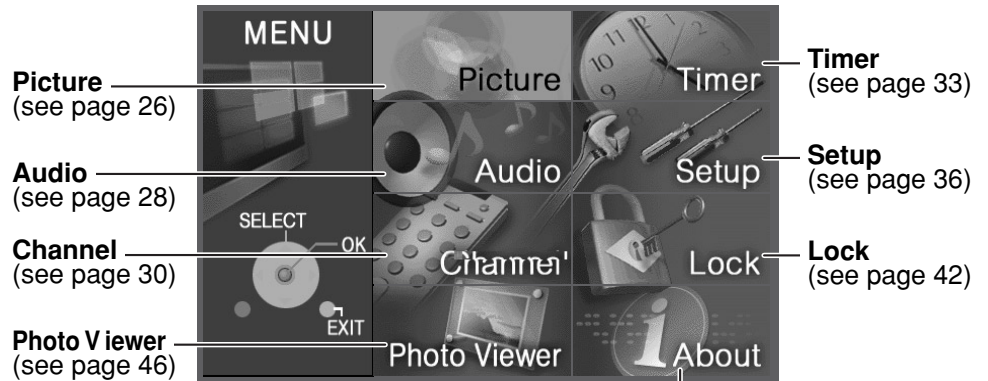
- Point the remote control towards the cable box.

Notes:

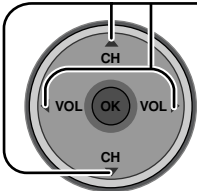
- The remote control code number is set for Panasonic products.
- To operate other manufacturer's product (see pages 59 - 64).

Menu Navigation

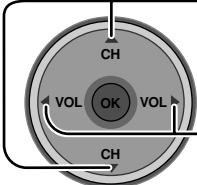
- 1  Press to display the Main menu.



About
The About screen displays assorted information about the TV. Please have this information when calling Customer Care Center.

- 2  Press to select the menu.

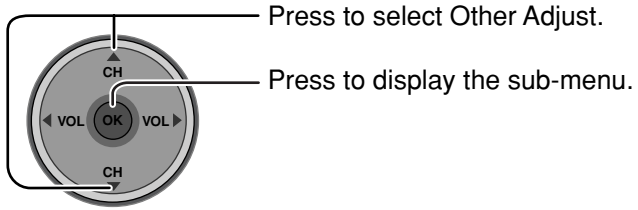
- 3  Press to enter the sub-menu field.

- 4  Press to select the sub-menu.
Press to adjust the sub-menu.

ex. Picture menu

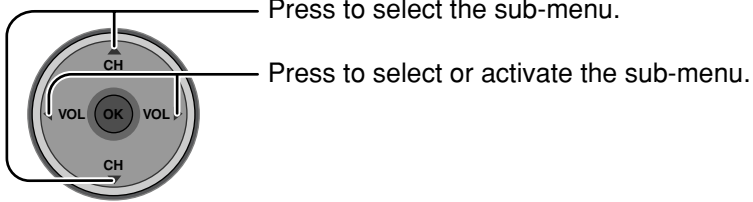
Picture	
Pic Mode	Vivid
Color	31
Tint	31
Brightness	26
Picture	63
Sharpness	50
Normal	No
Other Adjust	

1 [To select Other Adjust sub-menu]



Other Adjust	
Color Temp	Cool
Natural Color	On
Video NR	Off
3D Y/C Filter	Off
Color Matrix	HD
Freeze	Split

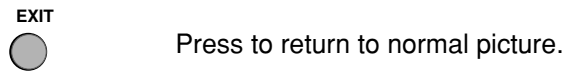
2



To return to the previous screen



To exit menus

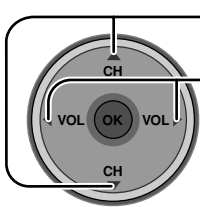


Picture

Picture	
Pic Mode	Vivid
Color	31
Tint	31
Brightness	26
Picture	63
Sharpness	50
Normal	No
Other Adjust	

Pic Mode

Lets you choose the pre-set picture modes that best suits the program you are viewing. This feature also affects Color Temp setting (see page 27).



Press to select Pic Mode.

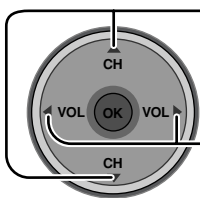
Press to select the picture mode.

- Vivid (default) : Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard : Recommended for normal viewing conditions with subdued room lighting.
- Cinema : For watching movies in a darkened room. It provides a soft, film-like picture.
- Auto : Automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimise contrast.

Note:

Each mode has its own picture settings (Color, Tint, Brightness, Picture and Sharpness).

Color / Tint / Brightness / Picture / Sharpness / Normal

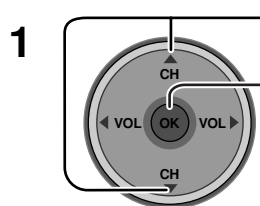


Press to select the sub-menu.

Press to adjust the sub-menu.

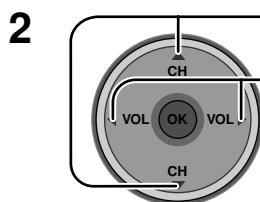
Item	Explanations
Color	Adjusts desired color intensity.
Tint	Adjusts natural flesh tones.
Brightness	Adjusts dark areas of picture.
Picture	Adjusts white areas of picture.
Sharpness	Adjusts clarity of outline detail.
Normal	Resets all picture adjustments to factory default settings.

Other Adjust



Press to select Other Adjust.

Press to display the sub-menu.

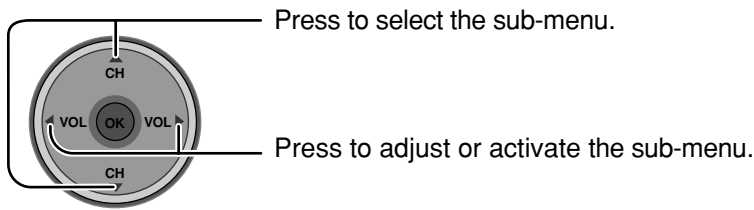


Press to select the sub-menu.

Press to select or activate the sub-menu.

Other Adjust	
Color Temp	Cool
Natural Color	On
Video NR	Off
3D Y/C Filter	Off
Color Matrix	HD
Freeze	Split

■ Color Temp (temperature) / Natural Color / Video NR / 3D Y/C Filter

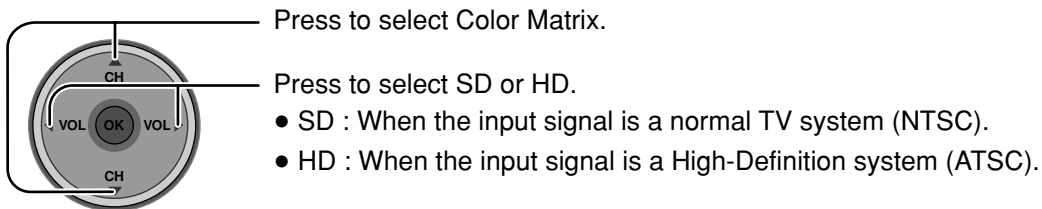


Item	Explanations
Color Temp (temperature)	To increase or decrease Warm (red) and Cool (blue) colors to suit personal preferences.
Natural Color	To increase the color reproduction range with natural color gradation and highly delicate hues.
Video NR	Reduces noise in the channel, commonly called snow. Remains off when receiving a strong signal.
3D Y/C Filter	Minimizes noise and cross color in the picture.

■ Color Matrix

Displays 480p input signals in a natural color from digital equipment adapters connected to COMPONENT VIDEO INPUT (Y, P_B, P_R) terminals.

Select HD or SD to automatically adjust color parameters for HD (high definition) or SD (standard definition).

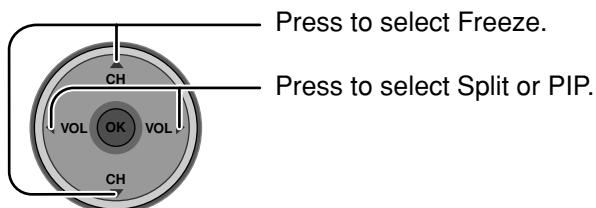


Notes:

- This feature is available only with 480p signal and not available with regular TV (NTSC) program.
- When viewing a non-standard DTV signal format, you can change color parameters manually for the best picture quality.

■ Freeze

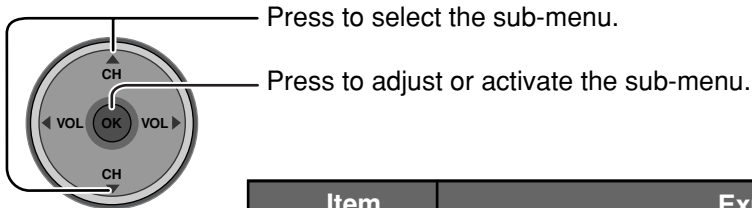
This feature is used to freeze main picture and display it in a PIP or SPLIT frame, when the **FREEZE** button on the remote control is pressed. Press **FREEZE** again to delete frame (see pages 53, 55).



Audio

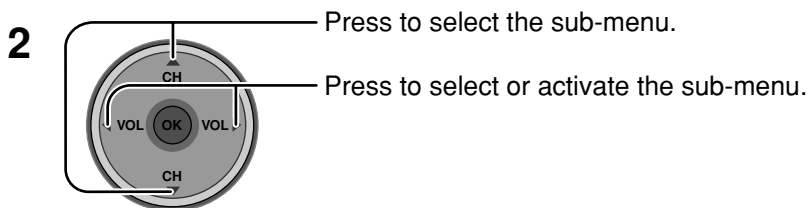
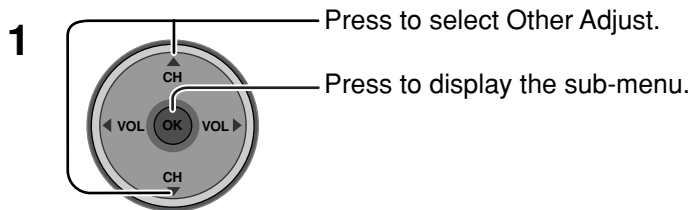
Audio	
Bass	7
Treble	7
Balance	31
Normal	Set
Other Adjust	

Bass / Treble / Balance / Normal



Item	Explanations
Bass	Increase or decrease the bass response.
Treble	Increase or decrease the treble response.
Balance	Emphasize the left / right speaker volume.
Normal	Reset Bass, Treble and Balance adjustments to factory default settings.

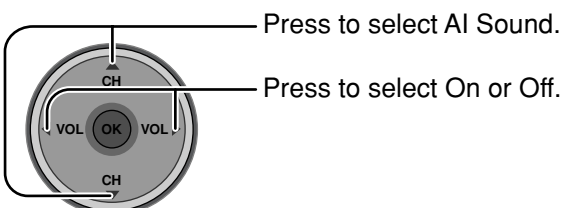
Other Adjust



Other Adjust	
AI Sound	On
BBE VIVA 3D	Off
BBE	Off
Surround	Off
Speakers	On
HDMI In	Auto

■ AI Sound

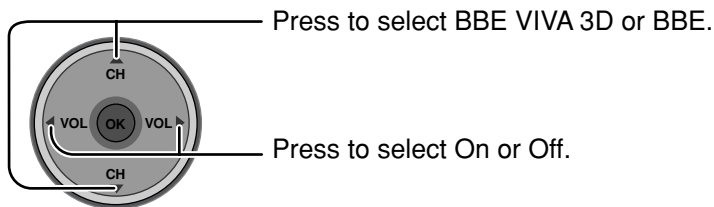
Equalize overall volume levels across all channels. AI sound is not available in VIDEO input mode (see page 20).



■ BBE VIVA 3D / BBE

BBE VIVA 3D BBE VIVA 3D provides a musically accurate natural 3D image with hi-fi sound. The clarity of the sound is improved by BBE while the width, depth and height of the sound image are expanded by BBE's proprietary 3D sound processing. BBE VIVA 3D is compatible with all TV programs including news, music, dramas, movies and sports as well as electronic games. BBE VIVA 3D enhances the surround sound effect, while maintaining the clarity of dialogue.

BBE Sound technology enhances speech intelligibility and restores the dynamic range of musical passages to provide outstanding natural sound.

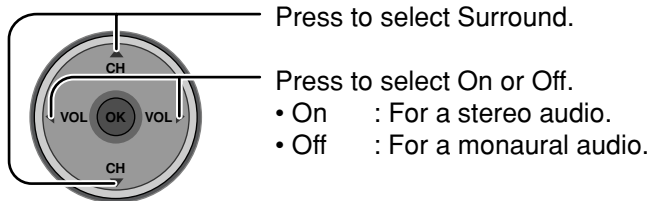


Notes:

- When “BBE VIVA 3D” is set to On, “BBE” and “Surround” setting are fixed to “On”.
- When “BBE VIVA 3D” is set to Off, “BBE” and “Surround” can be set individually.

■ Surround

Enhances audio response when listening to stereo.

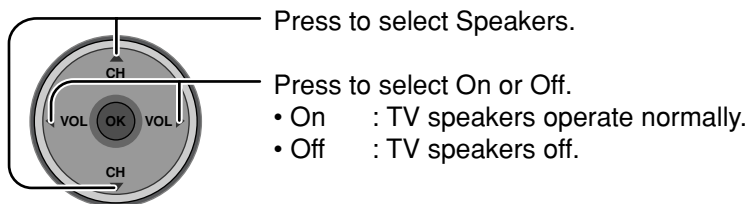


Note:

This feature is effective when BBE VIVA 3D is set to Off.

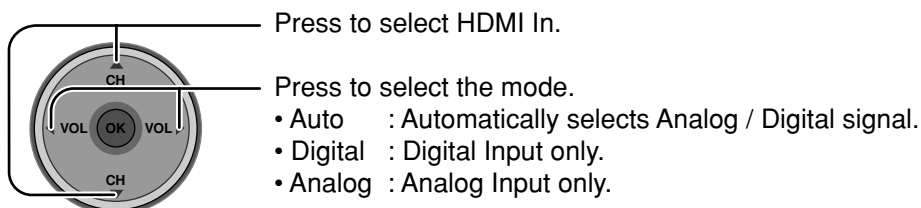
■ Speakers

This feature is used to turn TV speakers On or Off (see page 16, Amplifier Connection).

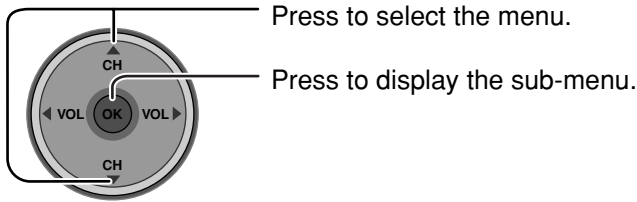


■ HDMI In

When using HDMI (see page 15), this feature will let you switch between Analog Input and Digital Input.



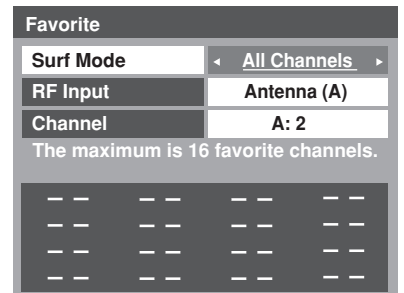
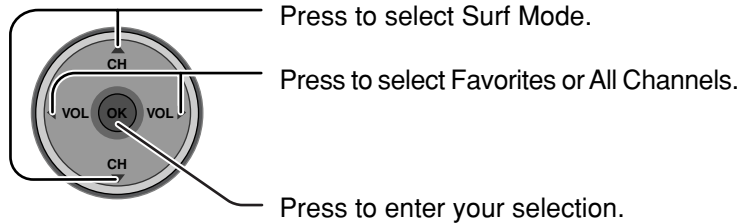
Channel



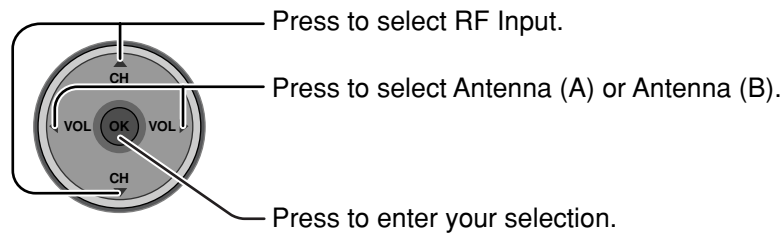
Favorite

Allows you to create Favorite channel list from Antenna (A) or Antenna (B).

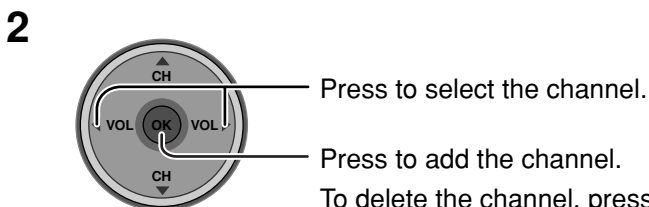
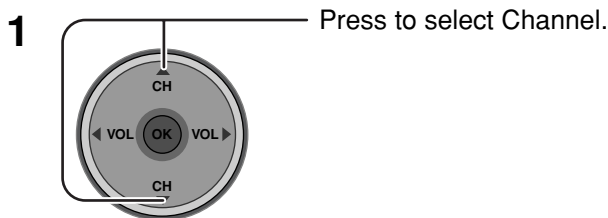
■ Surf Mode



■ RF Input



■ Channel



To delete the channel, press again while the channel number is displayed.

- Repeat step 2 up to 16 favorite channels.

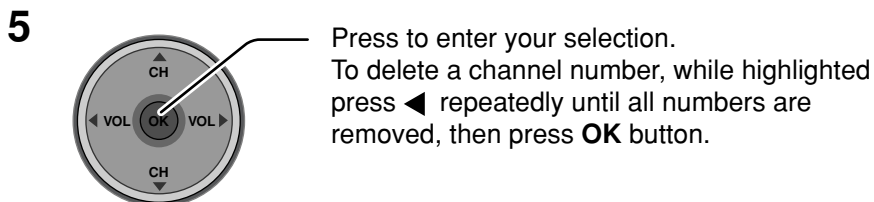
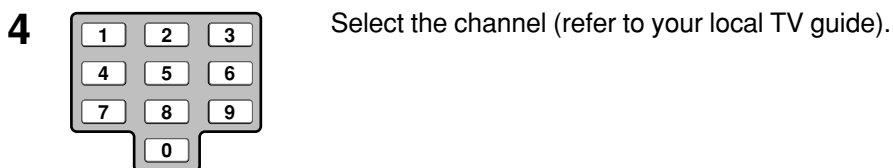
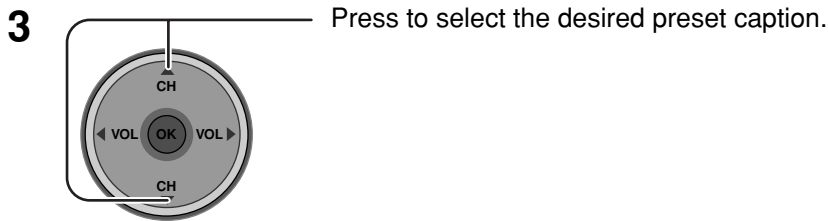
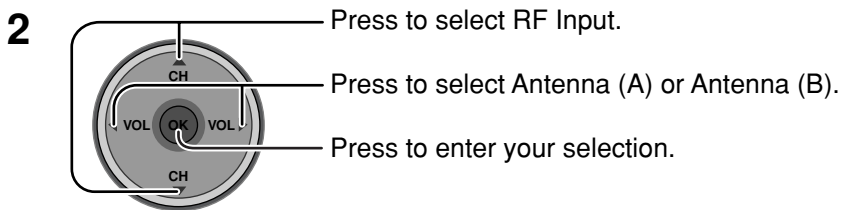
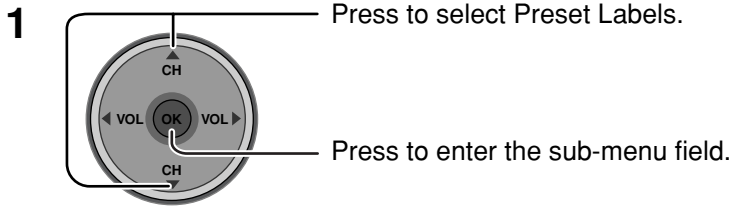
Captions

To enter preset and manual labels to desired stations. Also to enter input label to video inputs.

■ Preset Labels

To enter channel numbers for popular TV stations.

Captions		
Preset Labels	RF Input	Antenna (A)
Manual Labels	ABC	
Input Labels	CBS	
	FOX	
	NBC	
	PBS	
	CNN	
	ESPN	
	HBO	



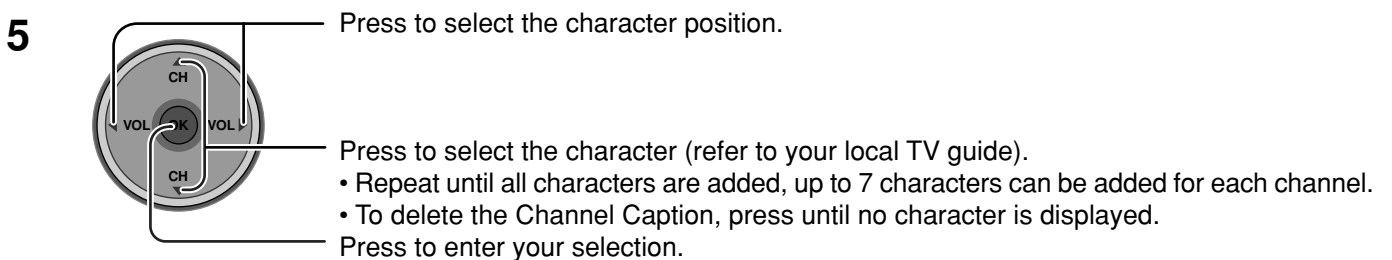
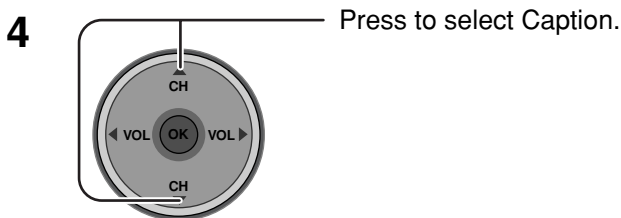
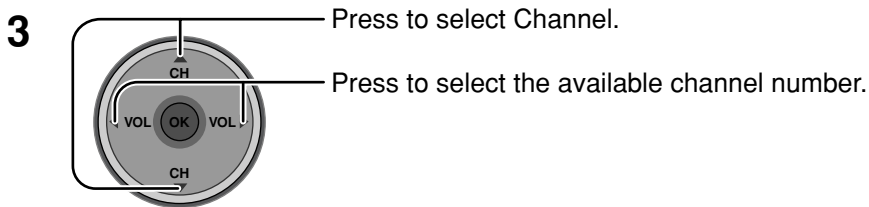
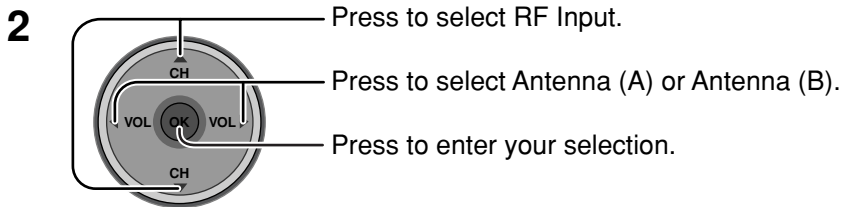
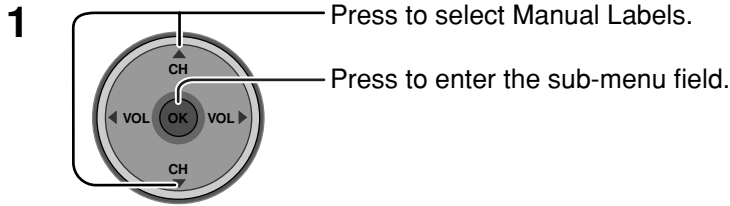
Note:
Only input with signal will be selectable.

Menu Navigation

Manual Labels

To enter numbers and captions manually.

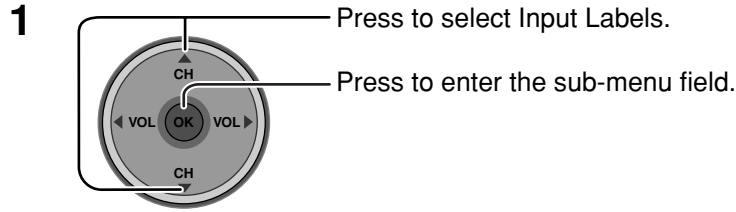
Captions		
Preset Labels	RF Input	Antenna (A)
Manual Labels	Channel	A: 2
Input Labels	Caption	



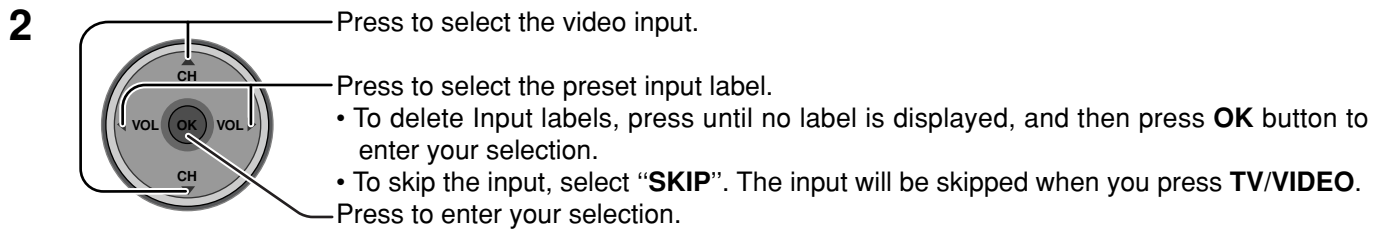
Note: Only input with signal will be selectable.

Input Labels

To label video input connections for on-screen display.



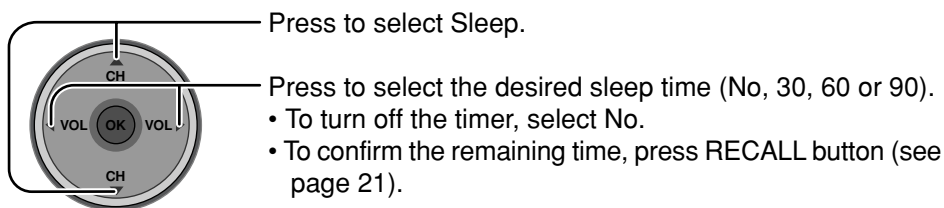
Captions	
Preset Labels	Component 1
Manual Labels	Component 2
Input Labels	HDMI
	Video 1
	Video 2
	Video 3
	PC



Timer

Set the time in Clock Set (see page 35) before setting Timer.

Sleep

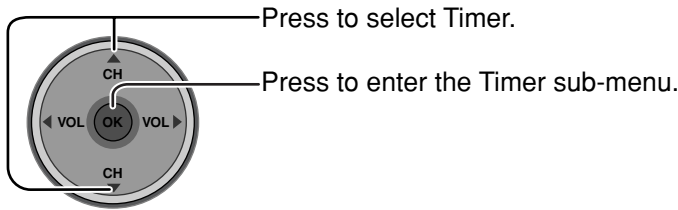


Timer	
Sleep	No
Timer	
Clock Set	...:.. - -
Day Set	...

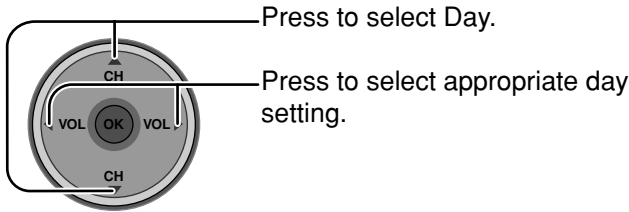
Menu Navigation

Timer

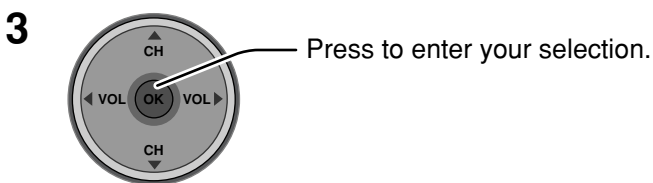
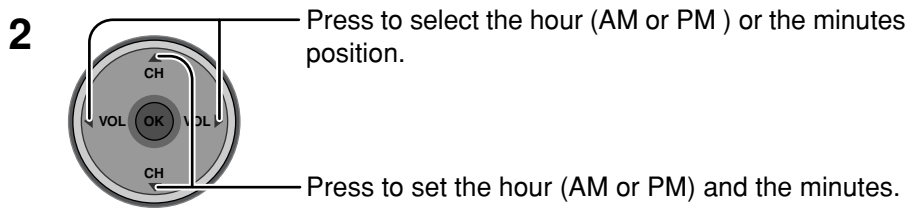
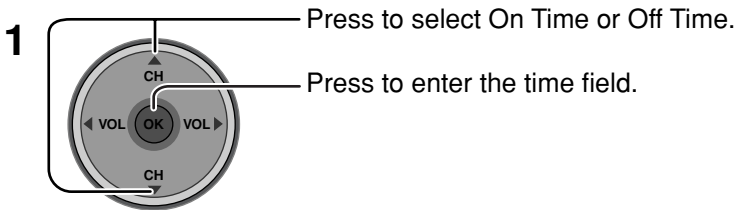
Select timer to turn the TV on and off at selected times and on selected day.



Day



On Time/ Off Time



Timer	
Sleep	No
Timer	
Clock Set	-- : -- --
Day Set	---

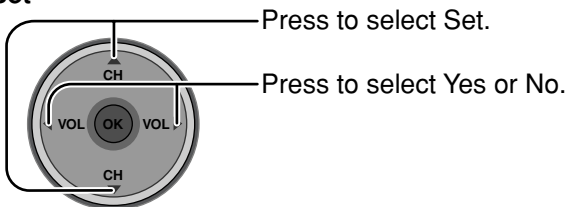


Timer	
Day	MON-FRI
On Time	7 : 10 AM
Off Time	8 : 10 PM
Set	Yes

Notes:

- The TV automatically turns Off after 90 minutes when turned On by the Timer. It will be cancelled if the Off Time is selected or if a key is pressed.
- When the power to the TV set is disrupted due to a power outage or similar problem, the off-timer will be deactivated and the TV will be in standby mode even after power is restored.

Set



To return to the previous screen

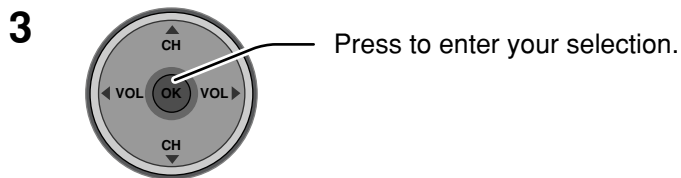
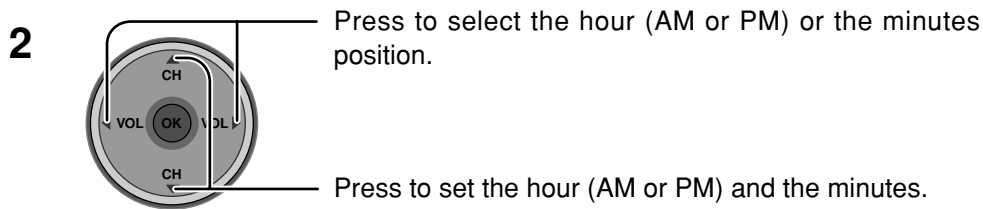
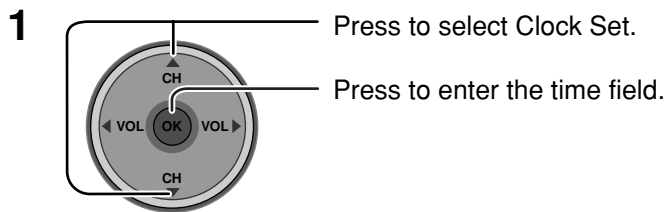


Press to return.

To activate Timer

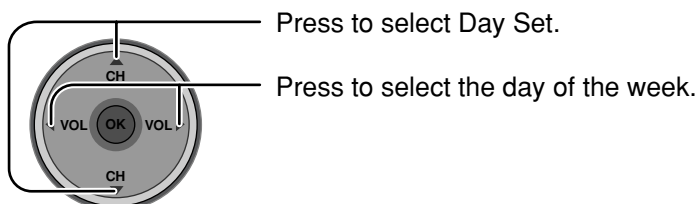
Select the channel and turn off the TV.

Clock Set

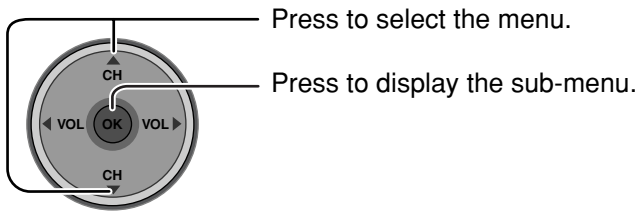


Day Set

Set the day of the week.



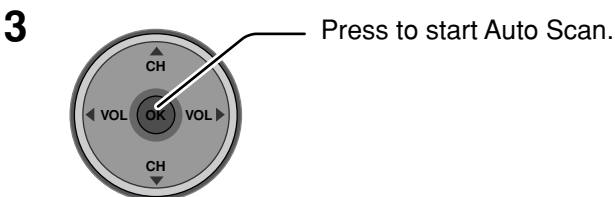
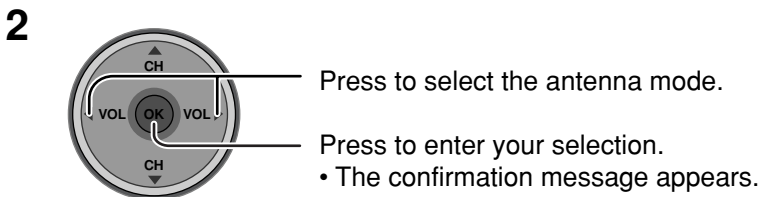
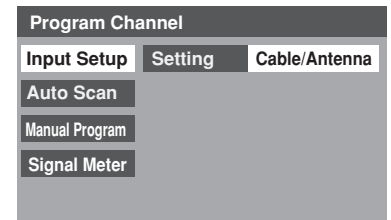
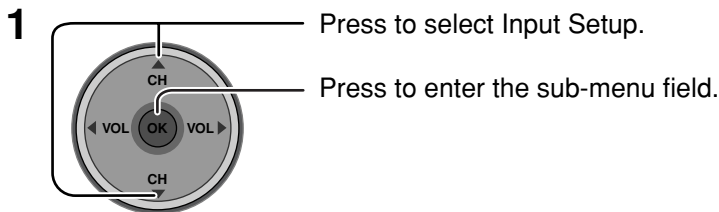
Setup



Program CH

■ Input Setup

Lets you specify the antenna mode (Cable only, Cable/Antenna or Antenna only).

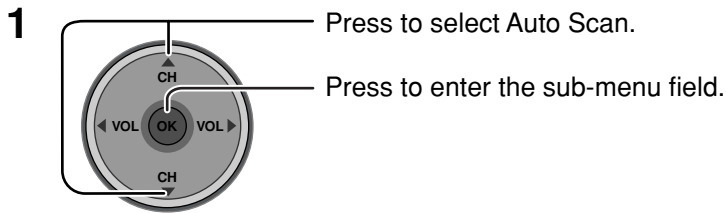


Notes:

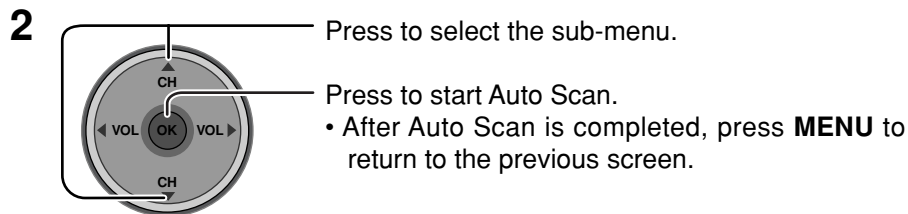
- Auto scan is necessary when you select the input signal for the first time or whenever you change the antenna configuration.
- If CableCARD is not inserted, the Auto scan performs Scan All.
- When CableCARD is inserted and Cable only is selected, Auto Scan will be skipped.
- When CableCARD is inserted and Cable/Antenna is selected, Antenna (B) Analog & Digital Auto Scan will be performed.
- In order to manually select Antenna B from the remote, Auto Scan must first be performed.

Auto Scan

Automatically scans all available channels, Antenna (A) Analog, Antenna (A) Analog & Digital, Antenna (B) Analog and Antenna (B) Analog & Digital.

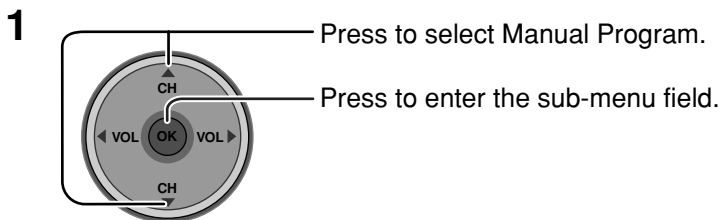


Program Channel	
Input Setup	Scan All
Auto Scan	Antenna (A) Analog
Manual Program	Antenna (A) Analog & Digital
Signal Meter	Antenna (B) Analog
	Antenna (B) Analog & Digital

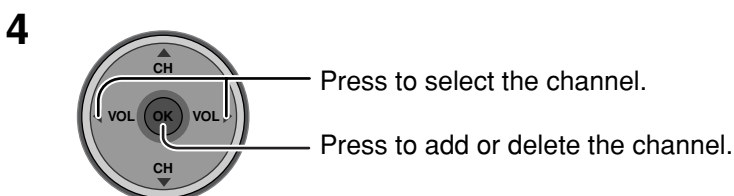
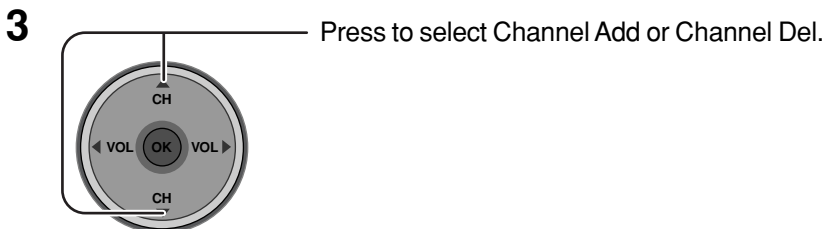
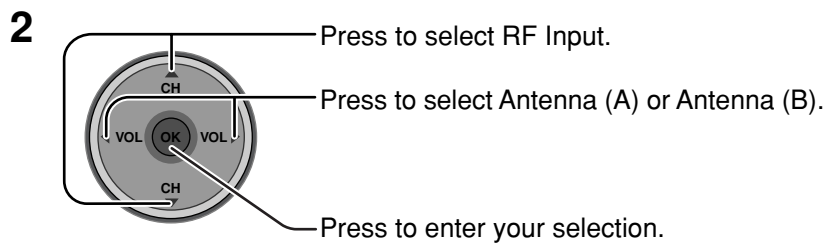


Manual Program

To add or delete channels from either channels list (A/B) manually.



Program Channel		
Input Setup	RF Input	Antenna (A)
Auto Scan	Channel Add	A: 1
Manual Program	Channel Del	A: 2
Signal Meter		

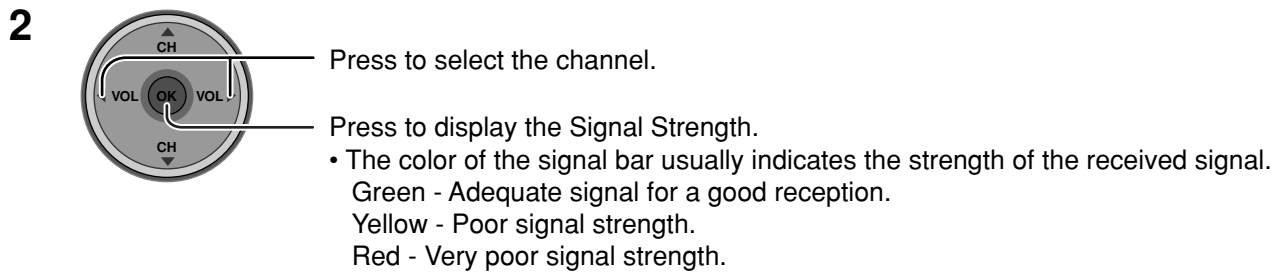
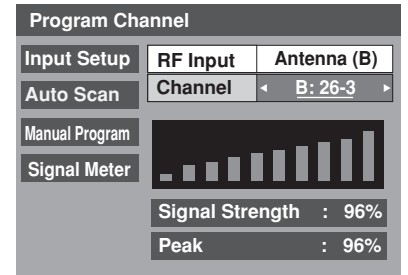
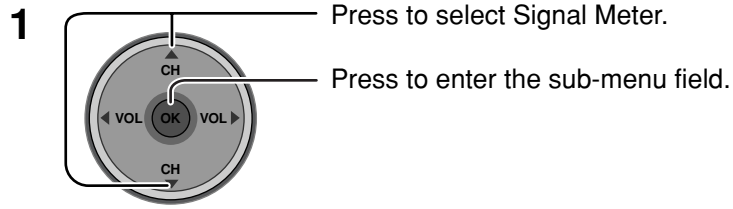


Menu Navigation

■ Signal Meter

(For digital channels only)

Displays the signal strength of the ATSC digital channel in either Antenna (A) or Antenna (B).

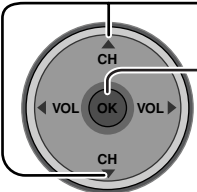


Closed Caption

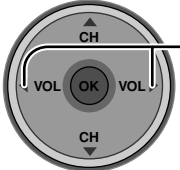
The television includes a built-in decoder that is capable of providing a visual display of the audio portion. The program viewed must provide Closed Captioning (CC) for the television to display it.

■ CC Mode

Activates Closed Captioning when the MUTE button is pressed.

- 

Press to select CC Mode.

Press to enter the sub-menu field.
- 

Press to select the setting.

 - Off
 - On : To display Closed Captions.
 - On Mute : To display Closed Captions when audio is muted.

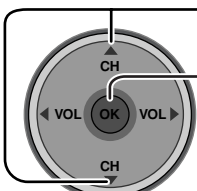
Closed Caption		
CC Mode	Setting	Off
Analog		
Digital		

Notes:

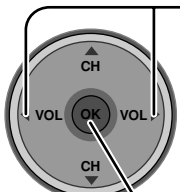
- The closed caption is not displayed when you use HDMI connection.
- When displaying or recording an analog channel program on a connected equipment, select the closed caption On/Off setting on the connected equipment. The TV's CC Mode setting does not affect with the analog channel output signal.
- When displaying or recording a digital channel program on a connected equipment, set the TV's CC Mode setting to Off and select the closed caption On/Off setting on the connected equipment. The digital closed captions will overlap if the closed caption setting is On on both the TV and the connected equipment.

■ Analog

Lets you choose the closed caption service of Analog broadcasting.

- 

Press to select Analog.

Press to enter the sub-menu field.
- 

Press to select the setting.

 - CC1 : For video related information that can be displayed (up to 4 line of script on the screen, where it does not disturb the relevant parts of the picture). Script can be in any language.
 - CC2/CC3/CC4 : Other modes used for video related information.
 - T1 : Blanks out a large portion of the picture on the television screen, and displays program guide or any other information currently being transmitted.
 - T2/T3/T4 : Other modes that display information and blank out a large portion of the picture of theTV screen.

Press to enter your selection.

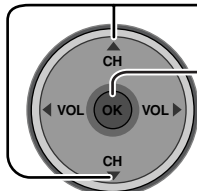
Closed Caption		
CC Mode	Service	CC1
Analog		
Digital		

Menu Navigation

■ Digital

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

1

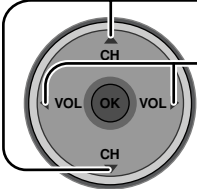


Press to select Digital.

Press to enter the sub-menu field.

Closed Caption		
CC Mode	Service	Primary
Analog	Font	Automatic
Digital	Size	Automatic
	Style	Automatic
	Colors	
	Reset	
Sample CC Text		

2




Press to select the sub-menu.

Press to select the setting.

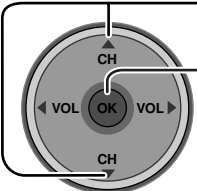
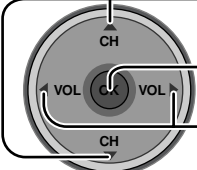
- Service : Primary, Secondary, Service 3, Service 4, Service 5, Service 6
- Font : Automatic, Default, Mono-serif, Pro-serif, Mono, Prop, Casual, Curative, Small Caps
- Size : Automatic, Normal, Small, Large
- Style : Automatic, None, Raised, Depressed, Uniform, Drop Shadow
- Colors : Foreground The opacity of the font (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)
 Fore Opacity The opacity of the text box (Automatic, Transparent, Translucent, Solid, Flashing)
 Background The color of the text box (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)
 Back Opacity The opacity of the text box (Automatic, Transparent, Translucent, Solid, Flashing)
 Outline The outline of the dropshadow (if selected under style)(Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan).
- Reset : Reset the Digital CC settings.

3



Press to enter your selection.

Other Adjust

- 1**
- 
- Press to select Other Adj.
- Press to display the sub-menu.
- 2**
- 
- Press to select the sub-menu.
- Press to enter the next field.
- Press to select or activate the sub-menu.

Other Adjust	
Auto Power On	Off
Side Bar	Bright
Power Save	Off

■ Auto Power On (Set or Off)

Select Set to power up the TV at the same time as the cable box or other connected components.

■ Side Bar (Off, Dark, Mid, Bright)

Displaying a picture in 4:3 mode for an extended period may cause an after-image. Change the brightness of the side bars to prevent the after-image.

Notes:

- Setting the side bar to Bright for an extended period may cause an after-image.
- The side bar may flash (alternate black/white) depending on the picture. In such a case, set Pic Mode to Cinema (see page 26).

■ Power Save (Off or On)

Suppress the luminous level of the TV to reduce power consumption.

Cable CARD

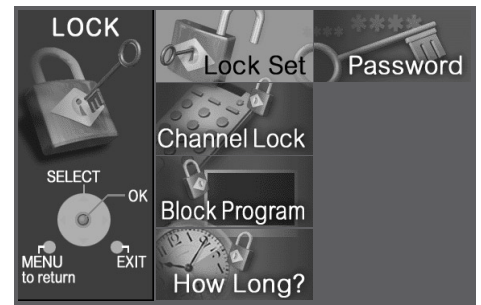
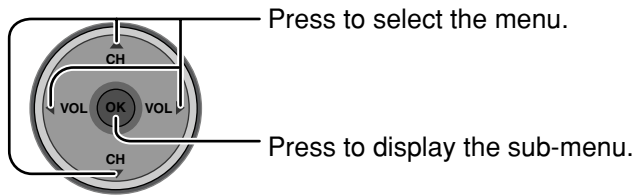
This menu provides information when a CableCARD is inserted into the CABLE CARD slot (see page 14).

Notes:

- If CableCARD is not inserted and you access the CableCARD Info, the message “Cable Module Not present” appears.
- To receive the features offered by your cable company, you may have to subscribe to those services. Contact your cable company regarding availability of the CableCARD. The CableCARD is required receive premium digital services (where available) through the cable input. You may also be able to order call-ahead pay per view events.

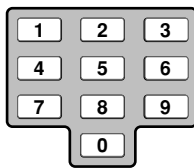
Menu Navigation

Lock



Password

Create a 4-digit password to enter the Lock menu.



Enter a 4-digit password.

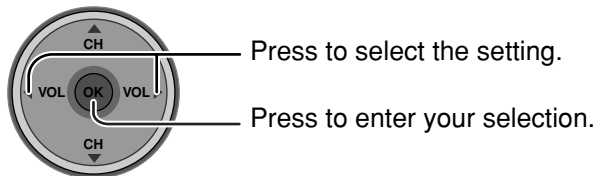


Notes:

- Use a code that is easy to remember and record it in a safe place.
- If Always is selected in How Long? (see page 45) and you forget your secret code, the TV must be serviced by a qualified technician to clear the Lock setup.

Lock Set

Select Lock Set to prevent viewing video games, VCR tapes, channels and Video modes.



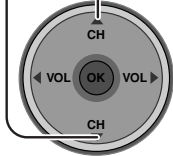
- Off : Turns off Lock set functions.
- Lock All : All channels are locked regardless of the rating level.
- Game Lock : Locks out CH 3, 4 and Video inputs.
- Channel Lock : Locks out specific analog and digital channels. Password is required to view any of the locked channels.

Channel Lock

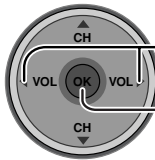
■ RF Input

Select either Antenna (A) or Antenna (B).

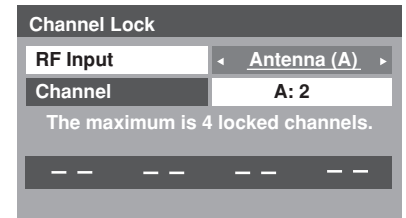
1 Press to select RF Input .



2 Press to select the setting.



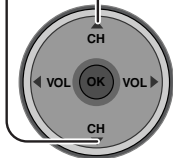
Press to enter your selection.



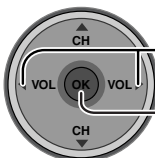
■ Channel

Select up to four (4) channels to be blocked out. These channels will be blocked out regardless of the program rating.

1 Press to select Channel.



2 Press to select the setting.



Press to enter your selection.

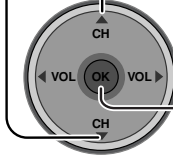
• To clear the channel number from the list, select the channel number and press **OK**.

Block Program

This television incorporates V-CHIP technology to block the viewing of movies and television programs according to the rating category. There are two (2) Content Advisory Categories: MPAA (Motion Picture Association of America) and TV Parental Guidelines Ratings. These categories are used as guidelines for blocking the programs.

• The default mode for the Lock category is the Unlocked state.

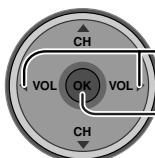
1 Press to select MPAA or U.S.TV.



MPAA : for U.S movie ratings
U.S. TV : for U.S TV program ratings

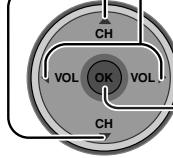
Press to enter the Mode field.

2 Press to select On or Off.



Press to enter your selection.

3 Press to highlight the desired rating level.



Press to change the rating limit to "Blocked" or "Viewable".

Block Program		
MPAA	Mode	Off
U.S.TV	NR	Viewable
	G	Viewable
	PG	Viewable
	PG-13	Viewable
	R	Viewable
	NC-17	Viewable
	X	Viewable

Notes:

- The NR rating is independent of other ratings.
- Placing a block on a specific age based rating level, the NR rating and any other more restrictive ratings will also be blocked.

Menu Navigation

U.S. TV PROGRAMS RATINGS CHART

NR	Not Rated. See CUSTOMER CAUTION below.
TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	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	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
TV-MA	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.
FV	FANTASY/CARTOON VIOLENCE
V	VIOLENCE
S	SEX
L	OFFENSIVE LANGUAGE
D	DIALOGUE WITH SEXUAL CONTENT

U.S. MOVIES RATINGS CHART

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

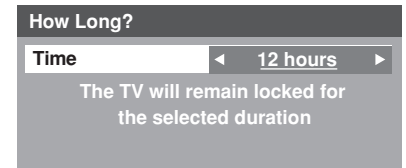
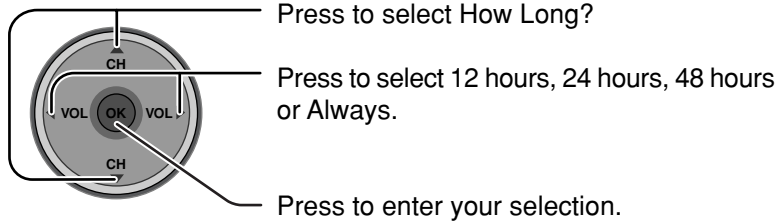
Customer Caution

The V-Chip system that is used in this set is capable of blocking "NR" programs (non rated, not applicable and none) per FCC Rules Section 15.120(e)(2). If the option of blocking "NR" programs is chosen "unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:"

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

How Long?

The Lock settings remain for the selected duration.



Note:

When you select Always and you forget your secret code, the TV must be serviced by a qualified technician to clear the Lock setup.

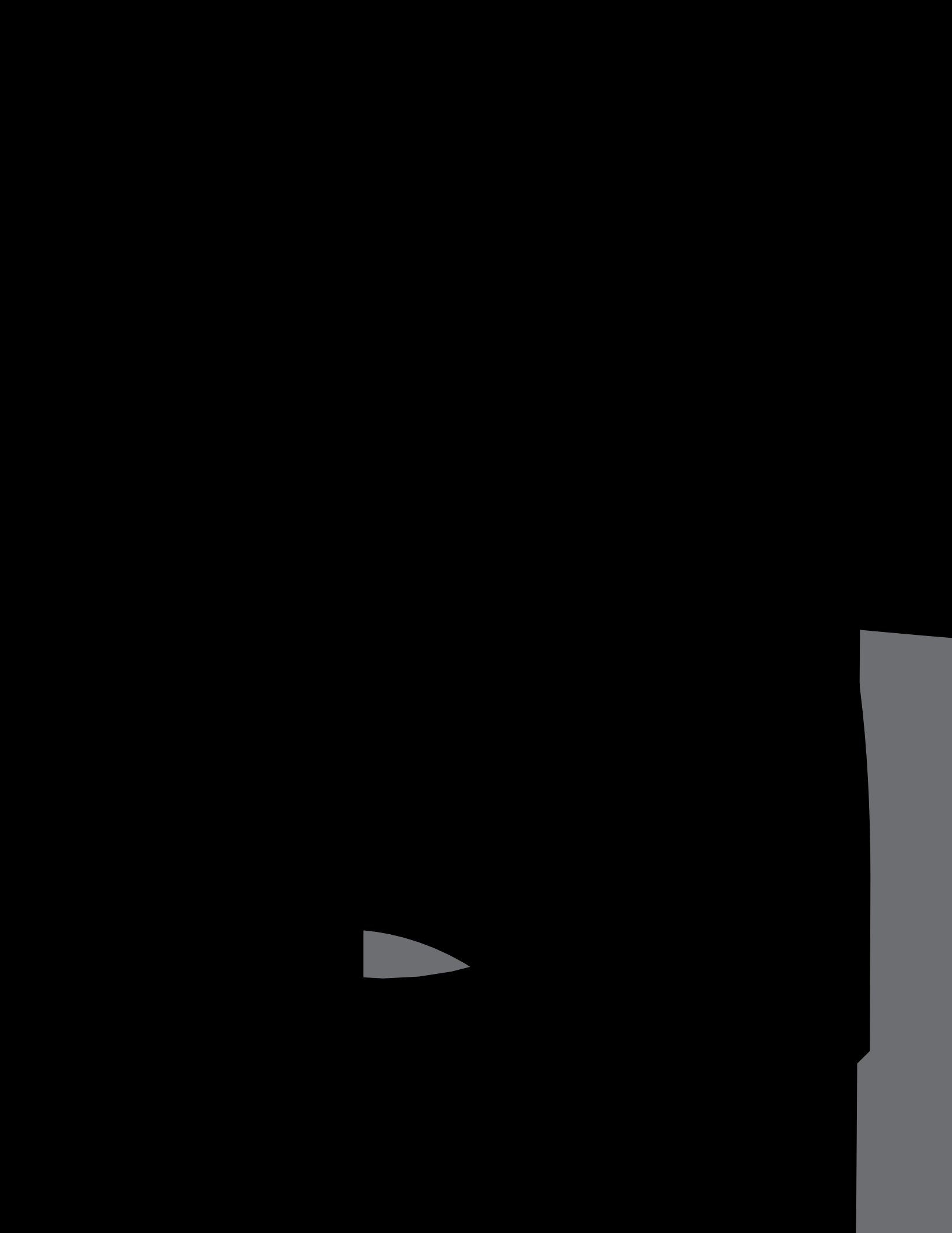
Blocking Messages

Various Blocking messages are displayed on-screen depending upon the type of blocking you have selected in the Lock menu.

Note:

Entering the password will override the block condition. However, the ratings selection will be retained.

Message	Possible cause
Video Inputs Locked.	Game Lock is selected.
Channel Locked. Press OK to enter password.	Channel Lock is selected.
Rating Limit Exceeded. Press OK to enter password.	The rating level is exceeded.

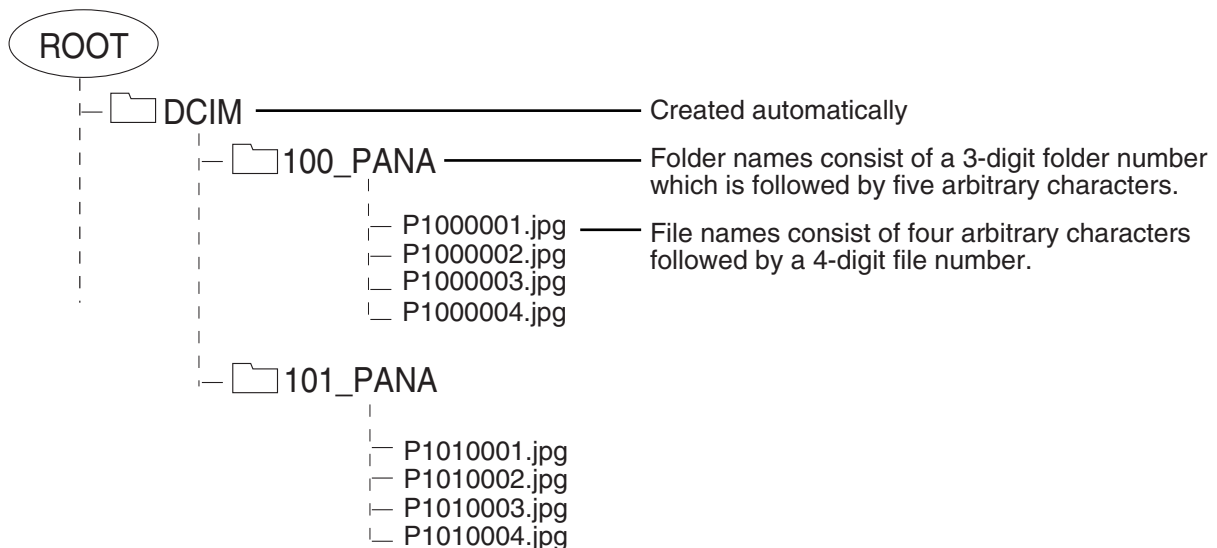


Folders and Files

- Photo Viewer can only show still images recorded by a digital still camera with DCF* and EXIF standard JPEG file.
 - *DCF (Design rule for Camera File system)
 - Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).
- Memory cards must be formatted with FAT12 or FAT16 in order to be viewed on TV. If the card is not formatted, it may cause incompatibility with certain memory card adapters. If this happens, reformat the card using your digital camera.
 - Reformatting the card will erase the images stored in it.** Refer to your camera manual for more information.
- Maximum number of folders that can be displayed: **100**.
- Maximum number of files that can be displayed: **3000**.
- **Picture resolution:** Compatible in the range 64 x 64 - 8192 x 8192 (sub-sampling 4:2:2 or 4:2:0)
- If the image is imported from a PC, it must follow the EXIF (Exchangeable image file format) 2.0, 2.1, 2.2 in addition to the DCF (design rule for Camera File system) format.
- The JPEG modified using a PC will not be displayed on TV.
- The Photo Viewer cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- If the file is partially corrupted, it may be shown in lower resolution.
- The displayed image size depends on the recorded size.

Example folder structure

JPEG images in all the folders are displayed sequentially.



Notes:

- Folder and file names may vary according to the digital still camera.
- Use the characters "a-z", "A-Z", "0-9" and "_" to name a directory or a file. Do not use two-byte characters or other special codes.

Thumbnail Mode

The thumbnail screen is the initial entry screen from the main menu.

- When both SD card and PCMCIA card are inserted, the TV plays SD card. To play a PCMCIA card, select “PC” in “Card” (see page 50) after inserting the PCMCIA card.

1 Insert the card into the appropriate slot (see page 46).

OR



Notes:


- You can also enter the thumbnail screen from MENU screen (see page 24).
- It may take long time to display the thumbnail if there are lots of files or the file size is large.
- The video disappears from the screen while the Photo Viewer access the information from the card. After accessing the images from the card, a thumbnail screen is displayed.

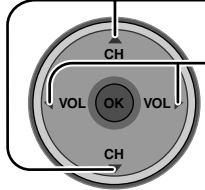
2

Photo Viewer Setup Menu


This menu allows you to customize features in the Photo Viewer Setup Menu.

While in the thumbnail mode or the single picture view mode (see page 48)

1  Press to display the Setup Menu screen.

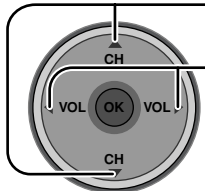
2  Press to select the sub-menu.
Press to adjust or activate the sub-menu.

Setup Menu	Return
Slide Show	Start
Interval	5Sec
Sequence	Order
Repeat	OFF
Rotate	Left
Zoom	To Fit
Card	SD

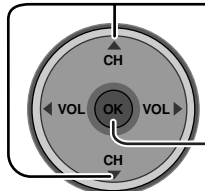


Slide Show

Select the settings of Interval, Sequence and Repeat before starting the slide show.

1  Press to select the sub-menu.
Press to adjust or activate the sub-menu.

- **Interval**
Allows you to change the length of time that a slide is being displayed on screen. (5Sec, 10Sec, 15Sec, 30Sec, 60Sec, 90Sec, 10Min).
- **Sequence (Order or Random)**
- **Repeat (OFF or ON)**

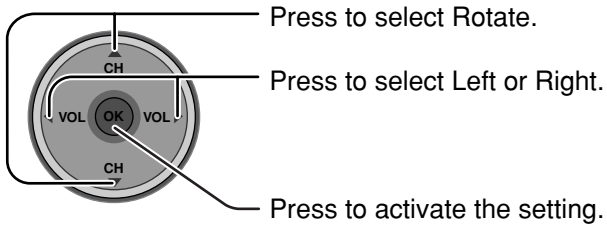
2  Press to select Start.
Press to start the slide show.

- Press again to stop.
- Press **ASPECT** to change the aspect of the image (see page 56).

Photo Viewer

Rotate

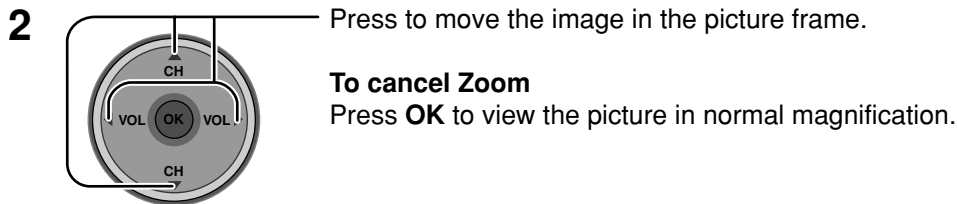
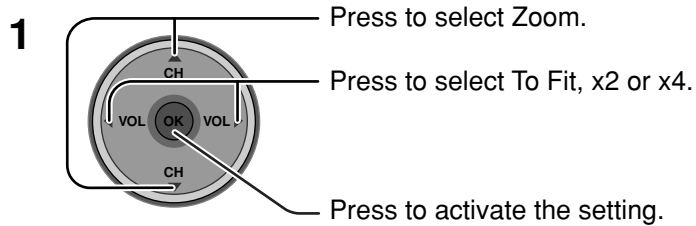
Allows you to rotate the image (see also page 48).



Zoom

(While in the single picture view mode only)

Lets you select the magnification of the single picture display.



Card

Select either SD or PC when both cards are inserted in the slots.

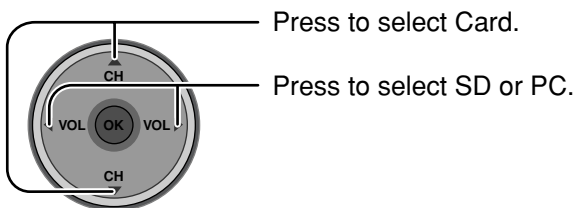



Photo Viewer Troubleshooting

Symptom	Cause and remedy	Page
Cannot read the content of the card.	• Not compatible format. Must be formatted with FAT 12 or FAT 16.	47
	• The extension is not "JPG".	47
	• The folders not under DCF standard.	47
PC card cannot be ejected.	Push the card all the way in, and eject.	46
Poor picture quality.	If the main image cannot be read (the file is partially corrupted), the Photo Viewer will read the thumbnail. Please confirm the format of the image.	47
Long time to display.	There are lots of images or the file size is large.	47
The screen turns black.	If the TV is left with no operation for longer than 5 minutes during the thumbnail screen or the single picture view mode, the screen turns black to avoid image retention. Press any key to return to the normal display.	—


■ Error messages

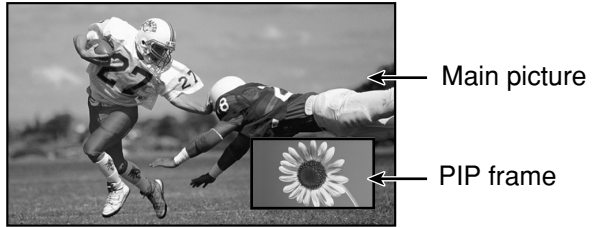
"Card is not inserted correctly."	Insert a card.
"This type of image is not supported."	The JPEG file is corrupted and cannot be decoded.
"This type of format is not supported."	The card is not formatted with FAT 12 or FAT 16 or if it is not DCF standard.
" 	Thumbnail and main picture cannot be shown.
"Photo Viewer cannot support over 3000 JPEG files."	Over 3000 image files.
"Photo Viewer cannot support over 8192 x 8192 pixels."	Resolution over.
"This type of card is not supported."	Incompatible card is inserted.
"Press any key to return."	The screen turned black to avoid image retention. Press any key to return to the normal display.

PIP (Picture in Picture) Operation

This television includes a two-tuner Picture In Picture (PIP) feature. This allows you to watch two (2) live broadcasts at the same time with or without an external video source such as a VCR, cable box, etc.



1  Press to display the PIP frame.



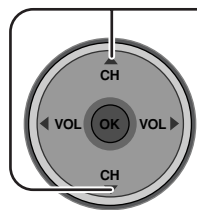
Notes:

- Audio is from Main picture only.
- PIP frame displays analog channel signal of ANTENNA (A) only, and cannot display ANTENNA (B) or digital channel signal.

2 In the PIP frame

 Select the channel.

In the Main picture

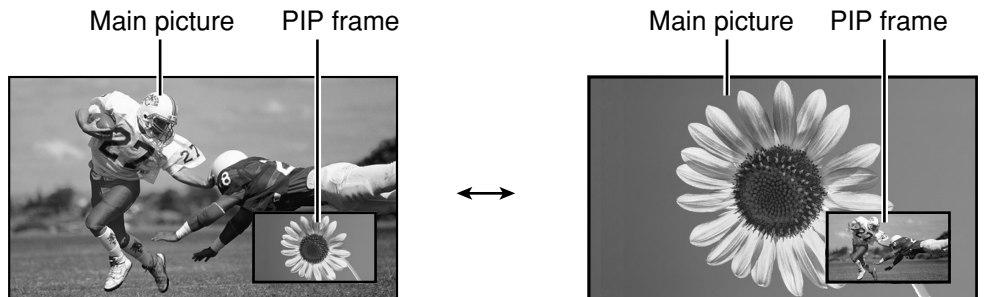
 Press to select the channel.
• You can also use the numbered buttons.

To cancel the PIP operation



To swap the pictures





To change the size of PIP frame

 : smaller  : larger

To freeze the picture

PIP frame



- Press again to cancel Freeze.

Main Picture

While PIP frame is not displayed

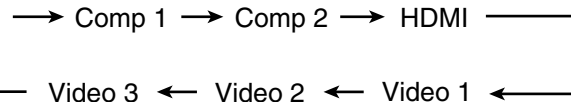
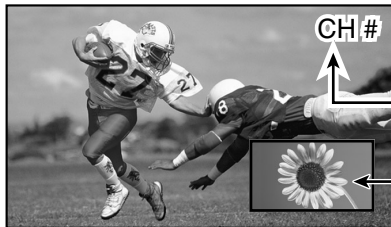


- Select PIP or Split (see page 27, Freeze) when freezing the Main picture.

Notes:

- Freeze is canceled after 3 minutes.
- Only MOVE (see below) is active while the Main picture is frozen.

To select the input mode of PIP frame

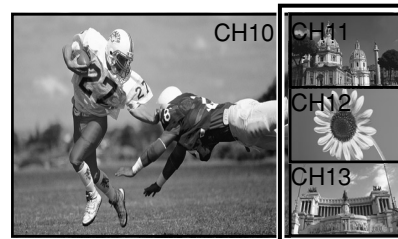


The input mode changes in PIP frame.

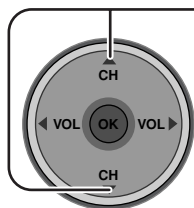
To search the channel

(For analog channels only)

- Press to display search frames.
• Press again to cancel Search.



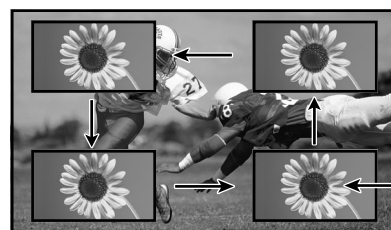
- Press to select the channel.
• You can also use the numbered buttons.



To move PIP frame

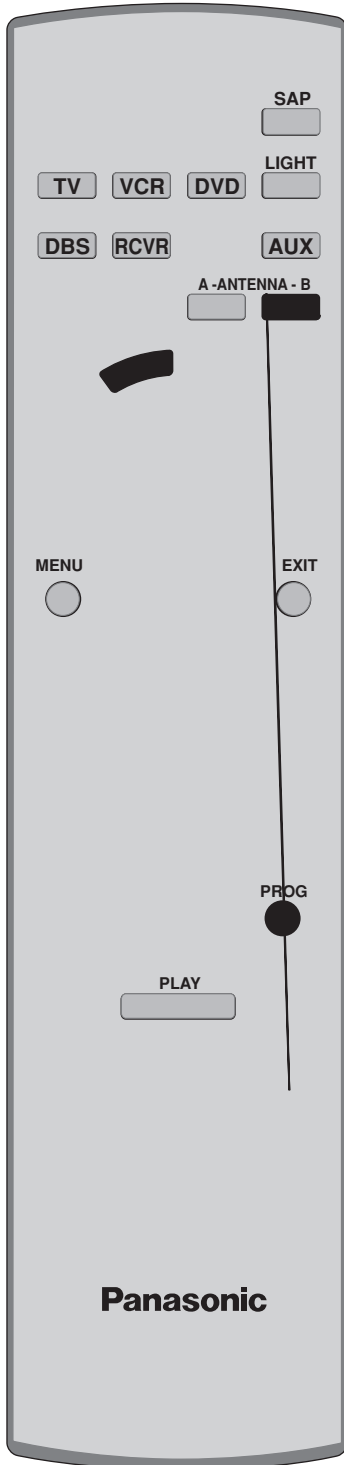



Press to position PIP frame to one of the four corners.



SPLIT Operation

This feature lets you watch two different channels side by side with or without an external video source.



1  Press to display the SPLIT frame.



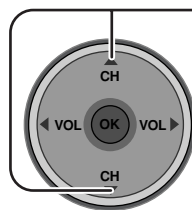
Notes:

- Audio is from Main picture only.
- SPLIT frame displays analog channel signal of ANTENNA (A) only, and cannot display ANTENNA (B) or digital channel signal.

2   **Tap the pictures** Main picture

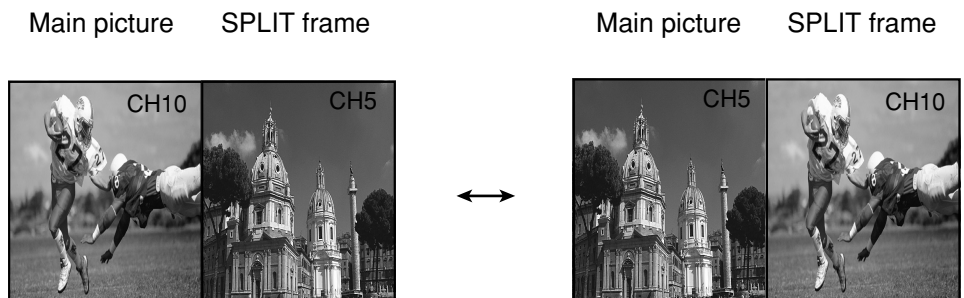
Select the channel.

In the Main picture



Press to select the channel.
• You can also use the numbered buttons.

To cancel the SPLIT operation.



To freeze the picture

SPLIT frame



- Press again to cancel Freeze.

Main Picture

While SPLIT frame is not displayed

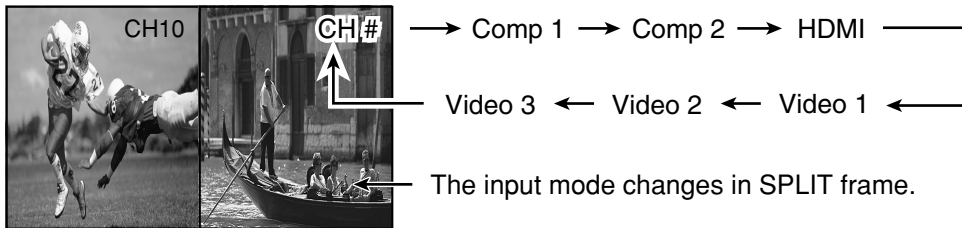


- Select PIP or Split (see page 27, Freeze) when freezing the Main picture.

Note:

- Freeze is canceled after 3 minutes.

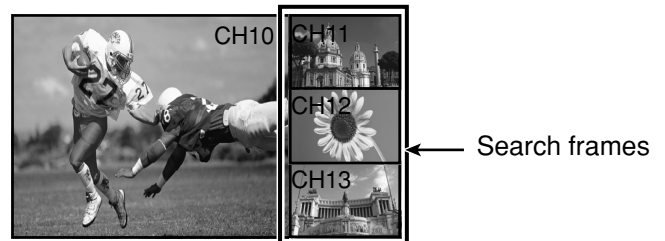
To select the input mode of SPLIT frame



To search the channel

(For analog channels only)

- Press to display search frames.
• Press again to cancel Search.



- Press to select the channel.
• You can also use the numbered buttons.

Notes:

- The Main picture and the SPLIT frame are processed in the individual circuits, and may have slight difference in image quality.
- You cannot display the same picture in the Main picture and the SPLIT frame at the same time.
- While Main picture freeze frame is displayed, you cannot select or search the channel, swap the pictures, or select the input mode.

Aspect Controls

Lets you choose the aspect depending on the format of the received signal and your preference.



Press to change the aspect mode.

Note: The available aspect modes depend on the receiving signal.

- 480i : 4:3, Full, Just or Zoom
- 480p (4:3) : 4:3, Full or Zoom
- 480p (16:9) : 4:3, Full or Zoom
- 1080i : 16:9 only
- PC mode : NORMAL, FULL, JUST or ZOOM
(In PC mode, "4:3" indication is displayed as "NORMAL".)

Mode	Picture	Explanation
4 : 3 (NORMAL in PC mode)		Displays a 4:3 picture at its standard 4:3 size with gray side bars. (It may create an after-image on screen if displayed for a prolonged period of time.)
Zoom		Expands a 4:3 picture uniformly (width and height) to full screen width and then reposition the picture vertically. (Recommended for letterbox. This will show picture at full screen size.)
Full		Displays a picture at full screen size. (Recommended for anamorphic pictures.)
Just		Stretches the right and left edges of a 4:3 picture to fill the screen, and the center of the screen have aspect correction applied. The size of the picture depends on the original signal. (Recommended for regular TV viewing.)

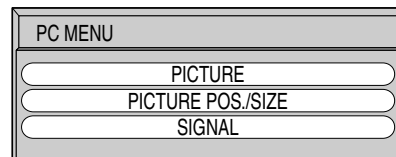
Note:

In PC mode, aspect mode information is displayed in the top right of the screen.

PC MENU

Preparation:

- Connect a PC to the TV (see page 18).
- Select PC input mode (see page 20).



- 1** Press to display the PC MENU.
 - 2** Press to select the sub-menu.
 Press to display the sub-menu screen.
 - 3** Press to select the sub sub-menu.
 Press to adjust the sub sub-menu.
- To return to the previous screen**
- EXIT

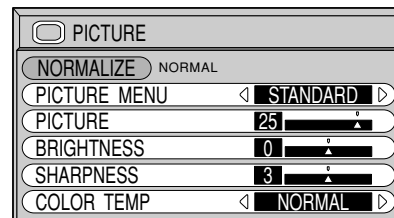
PICTURE

■ NORMALIZE

Select "NORMALIZE" to reset adjustments to the factory default setting.

Note:

- You can select "NORMALIZE" when you changed the settings.



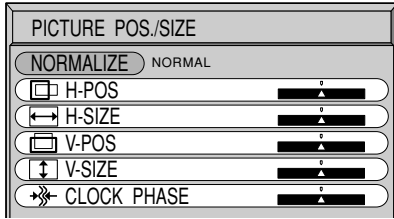
■ PICTURE MENU

MENU	Function
AUTO	Automatically selects the mode that best suits the brightness of the environment.
STANDARD	For viewing in standard (evening lighting) environments.
DYNAMIC	For viewing in brighter environments.
CINEMA	Ideal for movies.

■ PICTURE, BRIGHTNESS, SHARPNESS, COLOR TEMP

Item	Function
PICTURE	Adjusts white areas of picture.
BRIGHTNESS	Adjusts dark areas of picture.
SHARPNESS	Adjusts clarity of outline detail.
COLOR TEMP	To increase or decrease WARM (red) and COOL (blue) colors to suit personal preferences.

PICTURE POS./SIZE



Note:

If a "Cue" or "Rew" signal from a VCR or may DVD player is received, the picture position may shift up or down despite of the PICTURE POS./SIZE settings.

■ NORMALIZE

Select "NORMALIZE" to reset adjustments to the factory default setting.

Note:

- You can select "NORMALIZE" when you change the settings.

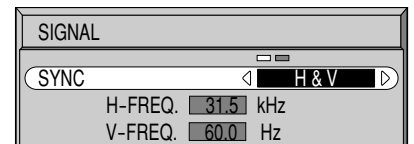
Menu	When "◀" button is pressed	When "▶" button is pressed
H-POS		
H-SIZE		
V-POS		
V-SIZE		
CLOCK PHASE (RGB/PC in Mode)	Flickering and distortion can be eliminated by using the Position Left "◀" or Right "▶" button to carry out adjustment.	

SIGNAL

■ SYNC

(Only for RGB INPUT signal)

- H & V: The H and V sync signals are input from the HD/VD connector.
- ON G: Uses a synchronized signal on the Video G signal, which is input from the G connector.



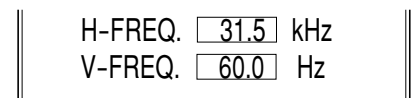
■ H-FREQ. (kHz)/V-FREQ. (Hz)

(Only for RGB input signal)

Displays the H (Horizontal)/V (Vertical) frequencies.

Display range:

- Horizontal 15 - 110 kHz
- Vertical 48 - 120 Hz



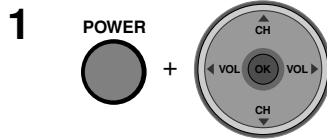
Operating peripheral equipment using the remote control

Programming the remote control code

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

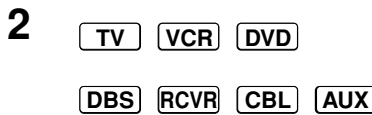
Preparation:

- Connect the plug of the external component to the wall outlet.
- Make sure the component is turned off.



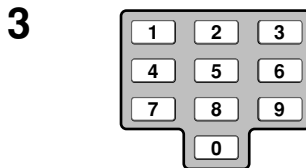
Press and hold **POWER** and **OK** together, for at least **5 seconds**.

- The mode selection buttons flashes, and then release the **POWER** and **OK**.



Select the type of the component.

- The selected button light and all others go out.



Enter the 3-digit infrared code (see pages 60-62).

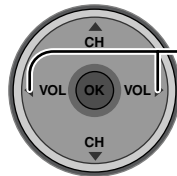
- Factory default setting : Panasonic
- Press **POWER** to test the operation.

Notes:

- If the component does not operate with the Remote Control, repeat the procedure using another code. (Some brands have multiple codes).
- If an incorrect code is entered, or if the procedure takes longer than 30 seconds, the programming will fail.

To find the code not listed in the index

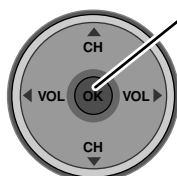
1 After selecting the type of component (step 2, above)



Press to select the code.

- The code starts from the current device.
- Press **POWER** button to test the operation.
- Repeat the steps until the component code is found. It may take many attempts before the correct code is found.

2



Press to store the code.

Operating peripheral equipment using the remote control

Infrared Code Index

The remote control is capable of operating many brands of peripheral equipment. Refer to page 59 for programming procedures.

Notes:

- The remote control memory is limited and therefore some models may not operate. The remote control is not designed to control all features available in all models.
- After entering the proper infrared code, press the desired Mode Selection buttons (see page 20). Refer to pages 63 and 64 for details on operating peripheral equipment using the remote control.

Infrared Remote Codes for Specific Components

Helpful Hint: Write down the code numbers for your components in the space provided below. This will serve as a handy reference whenever you need to reprogram your remote control.

CABLE Cable Box	<input type="text"/>	VCR Video Cassette Recorder	<input type="text"/>	CD Compact Disc Player	<input type="text"/>
DBS Digital Broadcast System	<input type="text"/>	RCVR Receiver or Amplifier	<input type="text"/>	LD Laser Disc Player	<input type="text"/>
Other Component	<input type="text"/>	Other Component	<input type="text"/>	Other Component	<input type="text"/>
Other Component	<input type="text"/>	Other Component	<input type="text"/>	Other Component	<input type="text"/>

Codes for VCR

Brand	Code
Admiral	335
Aiwa	332
Akai	314, 315, 316, 329
Audio Dynamic	311, 339
Bell & Howell	305, 313
Broksonic	320, 326
Canon	323, 325
CCE	343
Citizen	306
Craig	305, 306, 329
Curtis Mathes	324, 345
Daewoo	301, 324, 343
DBX	310, 311, 339
Dimensia	345
Emerson	303, 319, 320, 325, 326, 343
Fisher	305, 307, 308, 309, 313
Funai	320, 326, 334
GE	324, 333, 345
Goldstar	306
Gradiente	334
Hitachi	300, 323, 345
Instant Replay	323, 324
Jensen	339
JVC	310, 311, 334, 339
Kenwood	306, 310, 311, 339
LXI	300, 305, 306, 307, 308, 309
Magnavox	323, 324, 331
Marantz	310, 311, 339
Marta	306
Memorex	309, 324
MGA	338, 340, 341, 347, 348
Minolta	300, 345
Mitsubishi	338, 340, 341, 347, 348
Multitech	304, 347
NEC	310, 311, 334, 339
Olympic	323, 324

Brand	Code
Optimus	306, 321, 328, 335
Orion	320, 326
Panasonic	321, 322, 323, 324
Penney	300, 305, 310, 311, 324, 339, 345
Pentax	300, 311, 345
Philco	320, 323, 324, 326, 331, 343
Philips	323, 324, 331
Pioneer	323
Proscan	300, 301, 302, 323, 324, 331, 333, 345, 346
Quasar	321, 322, 323, 324
Radio Shack	305, 309, 324, 333, 336, 340
RCA	300, 301, 302, 323, 324, 331, 333, 345, 346
Realistic	305, 309, 324, 336, 340
Samsung	302, 304, 333
Sansui	320, 326, 339, 352
Sanyo	305, 309, 313
Scott	301, 302, 304, 309, 320, 326, 338, 340, 347, 348
Sears	300, 305, 306, 307, 308
Sharp	335, 336
Shintom	317
Signature 2000	335
Singer	317
Sony	328, 329, 330
Sylvania	323, 324, 331
Tashiro	306
Tatung	310, 311, 339
Teac	310, 311, 339
Technics	321, 322, 323, 324
Teknika	324
Toshiba	301, 346
Vector Research	311
Wards	306, 309, 335, 336, 344
Yamaha	305, 310, 311, 339
Zenith	306, 344

Operating peripheral equipment using the remote control

DVD

Codes for DVD

Brand	Code
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101

Brand	Code
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

DVD

Codes for CD

Brand	Code
Admiral	226
Aiwa	233, 235
Carver	229
Denon	242
Emerson	239
Fisher	205
Harman Kardon	219, 220, 221, 223
Hitachi	207
Jensen	234
JVC	240, 241, 245
Kardon	223
Kenwood	200, 201, 211, 245
LXI/Sears	236
Magnavox	229, 232
Marantz	229
McIntosh	221
Nakamichi	210
Onkyo	214, 215

Brand	Code
Optimus	208, 218, 220, 222
Panasonic	224, 225, 227
Philips	229, 230
Pioneer	208
Quasar	224, 225, 227
RCA	231, 237, 238, 247
Sansui	210, 246
Sanyo	205
Scott	210, 246
Sharp	242, 243
Sherwood	220
Sony	228
Soundesign	244
Teac	212, 216, 218
Technics	224, 225, 227
Victor	240, 241, 245
Yamaha	202, 203, 204

AUX

Codes for Personal Video Recorders

Brand	Code
Panasonic Replay TV	100
Philips Tivo	101
Sony Tivo	102

AUX

Codes for Cassette Deck

Brand	Code
Aiwa	223, 224, 225
Denon	231
Fisher	203
Jensen	214
JVC	229, 230
Kenwood	200, 207
Marantz	202
Nakamichi	205
Onkyo	208, 209, 213
Panasonic	216, 218

Brand	Code
Philips	222
Pioneer	204
RCA	226, 227, 228
Sansui	205, 210
Sharp	231
Sony	219, 220
Teac	210, 211, 215
Technics	216, 218
Yamaha	201, 202

Operating peripheral equipment using the remote control

RCVR

Codes for Receivers

Brand	Code
Admiral	120
Aiwa	125, 126
Denon	134, 135, 136
Fisher	104
Garrard	113
Harman Kardon	115, 123
Jensen	129
JVC	132, 133
Kenwood	100, 108
Magnavox	127
Marantz	124
McIntosh	116
Nakamichi	106
Onkyo	109, 114

Brand	Code
Optimus	103, 127, 130, 131
Panasonic	118, 119, 121
Philips	123
Pioneer	105, 107
Quasar	118, 119, 121
RCA	103, 105, 127, 130, 131
Sansui	103, 111, 139
Sharp	134, 137
Sony	122
Soundesign	138
Teac	111, 112, 113
Technics	118, 119, 121
Victor	132, 133
Yamaha	101, 102

CBL

Codes for Cable Box

Brand	Code
ABC	124
Archer	125, 132
Cableview	105, 132
Citizen	105, 122
Curtis	112, 113
Diamond	124, 125, 132
Eagle	129
Eastern	134
GC Brand	105, 132
Gemini	122
General Instrument/Jerrold	111, 119, 120, 121, 122, 123, 124, 125, 126, 127
Hamlin	112, 118, 140, 141, 142, 145
Hitachi	103, 124
Macom	103, 104, 105
Magnavox	133
Memorex	130
Movietime	105, 132
Oak	102, 137, 139
Panasonic	109, 110, 114
Philips	106, 107, 128, 129, 130
Pioneer	101, 116
Pulsar	105, 132

Brand	Code
Puser	132
RCA	115
Realistic	132
Regal	112, 118, 140, 141, 142, 145
Regency	134
Rembrandt	105, 132, 137
Samsung	105
Scientific Atlanta	111, 112, 113
Slmark	101, 105
Sprucer	105, 110
Stargate	105, 132
Tel eview	101, 105
Texscan	144
Tocom	135
Toshiba	104
Unika	125, 132
Universal	122, 132
Videoway	106
Viewstar	129, 130
Zenith	100, 117
Zenith /Drae Satellite	100

DBS

Codes for DBS


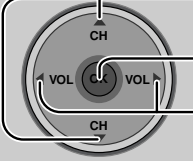







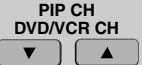
Brand	Code
Dish Network	105, 115, 116
Echo Star (Echostar)	105
Express VU	105, 115
G.E.	106
G.I. (General Instrument)	108
Gradiente	114
Hitachi	103, 111, 112
HNS (Hughes)	103

Brand	Code
Magnavox	101, 102
Panasonic	104
Philips	101, 102
Primestar	108
Proscan	106, 109, 110, 113
RCA	106, 109, 110, 113
Sony	107
Star Choice	103, 108
Toshiba	100
Uniden	101, 102





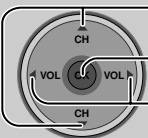



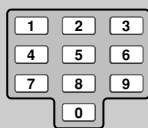








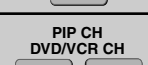

Operating peripheral equipment using the remote control

Mode Operational Key Chart

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









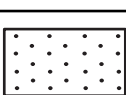













KEY NAME	DTV MODE	CABLE MODE	DBS MODE
	POWER	POWER	POWER
	NAVIGATION UP/DOWN	CABLE CHANNEL UP/DOWN	DBS NAVIGATION UP/DOWN
	OK	–	DBS MENU
	NAVIGATION RIGHT/LEFT	–	DBS NAVIGATION RIGHT/LEFT
	DTV MENU	–	–
	PROGRAM INFO.	–	DBS PROGRAM INFO.
	EXIT (EPG)ELECTRONIC PROGRAM GUIDE	–	EXIT DBS MENU
	Select Channel	Select Channel	Select Channel
	PREVIOUS STB CHAN	CABLE PREVIOUS CHAN	DBS PREVIOUS CHAN
	DTV PROGRAM/DASH	–	–
	Info (EPG) ELECTRONIC PROGRAM GUIDE	–	–
	–	–	DBS CHANNEL UP/DOWN

Operating peripheral equipment using the remote control

KEY NAME	VCR MODE	DVD/CD MODE		AUX MODE			RCVR MODE
		(DVD)	(CD)	(PVR)	(VCR2)	(TAPE)	
	POWER	POWER	POWER	POWER	POWER	POWER	POWER
	—	—	—	—	—	—	RCVR MUTE
	TV INPUT SW	—	—	—	TV INPUT SW	—	RCVR INPUT SW
	—	—	—	—	—	—	REMOTE BUTTONS
	—	NAVIGATION UP/DOWN	NEXT/PREVIOUS TRACK	NAVIGATION UP/DOWN	—	—	TUNER +/-
	—	—	—	—	—	—	—
	—	—	—	NAVIGATION RIGHT/LEFT	—	VOLUME +/-	RCVR VOLUME +/-
	—	—	—	PVR MENU	—	—	—
	ONSCREEN VCR DISPLAY	DVD DISPLAY	TIME FORMAT	—	ONSCREEN VCR DISPLAY	—	—
	—	—	—	EXIT PVR MENU	—	—	—
	—	—	—	Select Channel	—	—	1.... AV1 2.... AV2 3.... AV3 4.... AV4 5.... CD 6.... TUNER 7.... PHONO 8.... TAPE 9.... AUX
	—	—	—	PREVIOUS CHAN RELAY ZONES	—	DECK A/B	—
	—	—	—	PVR RETURN TO LIVE	—	—	—
	VCR REW/FF	SKIP SEARCH REW/FF	SEARCH REW/FF	—	VCR REW/FF	TAPE REW/FF	SURROUND +/-
	PLAY	PLAY	PLAY	PLAY	PLAY	PLAY	—
	PAUSE	STILL/PAUSE	PAUSE	PAUSE	PAUSE	PAUSE	—
	STOP	STOP	STOP	—	STOP	STOP	—
	VCR RECORD	—	—	PVR RECORD	VCR RECORD	TAPE RECORD	—
	TV/VCR SWITCH	SLOW +/-	—	—	TV/VCR SWITCH	—	—
	VCR CHANNEL UP/DOWN	—	—	PVR CHANNEL UP/DOWN	VCR CHANNEL UP/DOWN	—	RCVR CENTER +/-
	—	OPEN/CLOSE	OPEN/CLOSE	PVR QUICK SKIP	—	—	—


Troubleshooting Chart

Before calling for service, determine the symptoms and follow suggested solutions.

Symptoms		Solutions	Page
VIDEO	AUDIO		
 Snowy Video	 Noisy Audio	<ul style="list-style-type: none"> Adjust the antenna location and connection. 	13, 14
 Multiple Image	 Noisy Audio	<ul style="list-style-type: none"> Adjust the antenna location and connection. Check the antenna lead-in cable. 	13, 14 13, 14
 Interference	 Noisy Audio	<ul style="list-style-type: none"> Move the television away from electrical appliances, lights, vehicles and medical equipment. 	—
 Normal Video	 No Audio	<ul style="list-style-type: none"> Increase volume. Check Mute. Check Television Speakers on/off. Change channel. 	23 20 29 23
 No Video with Snow	 Noisy Audio	<ul style="list-style-type: none"> Set Input Setup properly. Check the antenna cables. 	36 13, 14
 No Video / No PIP	 No Audio	<ul style="list-style-type: none"> Check the power cord is plugged into the wall outlet. Adjust Brightness and Audio controls. Change channel. Check the cable connections. Program the remote control code. Check the second video source operation. Make sure that a PC is not connected to HDMI input. Rarely, the TV will not display video in HDMI input from devices with HDMI or DVI output due to bad communication between the TV and the devices. Should this happens, unplug the HDMI/DVI device and plug it back on. 	19 26,28,29 23 13-18 59-61 59-64 15
 No Color	 Normal Audio	<ul style="list-style-type: none"> Adjust Color settings. Change channel. 	26, 27 23
 Digitalization of image Image freeze up	 Audio Break up	<ul style="list-style-type: none"> Re-orient the ATSC antenna. Check signal meter. If the signal is weak, add a signal booster to boost the signal strength. 	— 38
 Normal Video	 Wrong Audio	<ul style="list-style-type: none"> Check the audio mode is set to Stereo or Mono, Not SAP. Change the audio of the HDMI device to Linear PCM. Check the audio setting for HDMI. If there is functional problem with Digital Audio, use Analog audio. 	21 — 29
 Black Box on Screen	 Normal Audio	<ul style="list-style-type: none"> Change CC (Closed Caption). 	39, 40
 Normal Video	 Normal Audio	<ul style="list-style-type: none"> Replace the remote control batteries. 	9
Intermittent Remote Control Operation			
Cannot select Antenna B		<ul style="list-style-type: none"> Perform Auto Scan. 	36

Troubleshooting Chart / VIDEO/COMPONENT/RGB/PC/HDMI input signals

Plasma Display panel

Symptoms	Check	Page
Some parts of the screen do not light up.	<ul style="list-style-type: none"> The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction. 	—
 <p>An after-image appears</p>	<ul style="list-style-type: none"> Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma TV. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. <p>Note: The permanent after-image on the Plasma TV resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.</p>	56
Whirring sounds can be heard from the display unit.	<ul style="list-style-type: none"> The TV is fitted with a cooling fan to dissipate heat generated during normal use. The rotating fan may cause a whirring sound but it is not a malfunction. The TV slightly consumes power and rotates the cooling fan even when turned off in order to receive program guide data etc. through the Cable CARD. The rotating fan may cause a whirring sound but it is not a malfunction. 	—

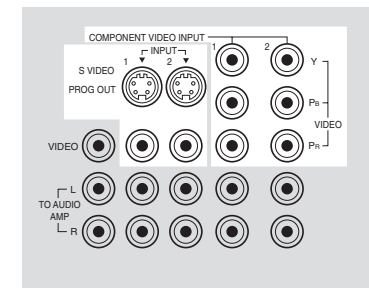
VIDEO/COMPONENT/RGB/PC/HDMI input signals

VIDEO input

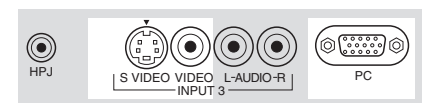
	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.73	59.94

Applicable input signals (* mark)

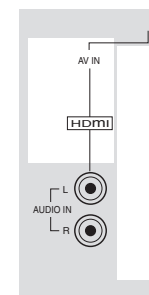
	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	COMPONENT	PC	HDMI
1	525 (480) /60i	15.73	59.94	*	*	*
2	525 (480) /60p	31.47	59.94	*	*	*
3	750 (720) /60p	45.00	60.00		*	
4	1,125 (1,080) /60i	33.75	59.94	*	*	*
5	640 × 400 @70	31.47	70.00		*	
6	640 × 480 @60	31.47	59.94		*	
7	Macintosh13" (640 × 480)	35.00	66.67		*	
8	640 × 480 @75	37.50	75.00		*	
9	852 × 480 @60	31.50	60.00		*	
10	800 × 600 @60	37.88	60.32		*	
11	800 × 600 @75	46.88	75.00		*	
12	800 × 600 @85	53.67	85.06		*	
13	Macintosh16" (832 × 624)	49.73	74.55		*	
14	1,024 × 768 @60	48.36	60.00		*	
15	1,024 × 768 @70	56.48	70.07		*	
16	1,024 × 768 @75	60.02	75.03		*	
17	1,024 × 768 @85	68.68	85.00		*	
18	Macintosh21" (1,152 × 870)	68.68	75.06		*	
19	1,280 × 1,024 @60	63.98	60.02		*	
20	1,280 × 1,024 @75	79.98	75.03		*	
21	1,280 × 1,024 @85	91.15	85.02		*	
22	1,600 × 1,200 @60	75.00	60.00		*	



VIDEO input
COMPONENT input



VIDEO input
PC RGB input



HDMI input

Note: Signals without above specification may not be displayed properly.

Specifications

	TH-37PX25	TH-42PX25	TH-50PX25
Power Source	AC 120 V, 50/60 Hz		
Power Consumption	Maximum : 395 W Stand-by condition : 18 W	Maximum : 445 W Stand-by condition : 18 W	Maximum : 545 W Stand-by condition : 18 W
Plasma Display panel	Drive method : AC type 37-inch, 16 : 9 aspect ratio	Drive method : AC type 42-inch, 16 : 9 aspect ratio	Drive method : AC type 50-inch, 16 : 9 aspect ratio
Screen Size	32.20 " (818 mm) (W) × 18.15 " (461 mm) (H) × 36.97 " (939 mm) (diagonal)	36.22 " (920mm) (W) × 20.39 " (518 mm) (H) × 41.57 " (1056 mm) (diagonal)	43.54 " (1106 mm) (W) × 24.49 " (622 mm) (H) × 49.96 " (1269 mm) (diagonal)
Dimensions (W × H × D)	40.94 " (1040 mm) × 27.44 " (697 mm) × 5.47 " (139 mm)	44.88 " (1140 mm) × 29.8 " (757 mm) × 5.47 " (139 mm)	52.32 " (1329mm) × 34.25 " (870 mm) × 5.47 " (139 mm)
Mass (Weight)	81.6 lb. (37 kg) Net	92.6 lb. (42 kg) Net	125.7 lb. (57 kg) Net
Channel Capability-ATSC/NTSC	VHF/ UHF : 2-69, CATV:1-135		
Sound	Speaker	Woofer φ 80 mm × 2, Tweeter 16 mm × 73 mm × 8	
	Audio Output	26 W [5 W + 5 W, 8 W + 8 W] (10 % THD)	
	Headphone	M3 (3.5 mm) Jack × 1	
FEATURES	Two screen display fuctions BBE VIVA 3D CLOSED CAPTION	3D Y/C FILTER LINEAR PIP V-Chip	HDMI JPEG Viewer
Accessories Supplied	Remote control: EUR7627Z10 AA Battery × 2 AC Cord Pedestal Clamper × 2	Ferrite cores : large × 4, small × 5 F-type antenna adapter (3C-2V × 2, 5C-2V × 2)	
Operating Conditions	Temperature : 34 °F - 104 °F (0 ° - 40 °C) Humidity : 20 % - 80 % (non-condensing)		
Connection Terminals	RGB input	D-SUB 15pin	R,G,B / 0.7 Vp-p (75 Ω) HD, VD / 1.0 - 5.0 Vp-p (high impedance)
	AV INPUT 1- 3	VIDEO (Phono Jack Type) S-VIDEO (Mini DIN 4-pin) AUDIO L-R (Phono Jack Type × 2)	1.0 Vp-p (75 Ω) Y : 1.0 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω) 0.5 Vrms
	AV PROG. OUT	VIDEO (Phono Jack Type) AUDIO L-R (Phono Jack Type × 2)	1.0 Vp-p (75 Ω) 0.5 Vrms
	TO AUDIO AMP	AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
	COMPONENT VIDEO INPUT1-2	Y PB / PR AUDIO L-R (Phono Jack Type × 2)	1.0 Vp-p (including synchronization) ± 0.35 Vp-p 0.5 Vrms
	HDMI	HDMI type A Connector AUDIO L-R (Phono Jack Type × 2)	0.5 Vrms
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic	

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

LIMITED WARRANTY

PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF
MATSUSHITA ELECTRIC CORPORATION OF AMERICA
One Panasonic Way
Secaucus, New Jersey 07094

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

Panasonic Display Product 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 Sales Company (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

TV CATEGORY	ALL PARTS	LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	IN-HOME OR CARRY-IN

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

Carry-in or In-Home 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 Sales Company (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 continued on next page

Limited Warranty continued from previous page**Limited Warranty Limits And Exclusions**

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the 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 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, 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 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 or loss of images, data or other memory content. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

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

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

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

<http://www.panasonic.com/support>

or, contact us via the web at:

<http://www.panasonic.com/contactinfo>

You may also contact us directly at:

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

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@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

Matsushita Electronic of Puerto Rico, Inc. Panasonic Sales Company

Factory Servicenter:

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,

Carolina, Puerto Rico 00985

Phone (787)750-4300, Fax (787)768-2910

By using this TV you are indicating acceptance of the GNU Public Licenses indicated below.

This product utilizes the following so called "open source" software:

- (1) the software which is licensed under the GNU GENERAL PUBLIC LICENSE,
- (2) the software which is licensed under the GNU LESSER GENERAL PUBLIC LICENSE, and
- (3) software developed by the third parties and available under certain terms and conditions.

For the software categorized as (1) and (2), please refer to the terms and conditions of the following GNU GENERAL PUBLIC LICENSE and GNU LESSER GENERAL PUBLIC LICENSE respectively.

If you wish to get further information as to the software, please contact the web site below.

<http://www.fsf.org/licenses/> and <http://www.am-linux.jp/>

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights. We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all. The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law:

that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program).

Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains

or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than yours cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program;

if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail. If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type
`show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Library General Public License instead of this License.

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "Library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or

with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.
- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary

libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
- b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.

10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.

11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty-free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yooyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

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 Matsushita
Electric Corporation of America**
One Panasonic Way Secaucus,
New Jersey 07094

**Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico Inc. (PSC)**
Ave. 65 de Infanteria, Km 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985



ADVERTENCIA
RIESGO DE DESCARGA ELÉCTRICA
NO ABRIR

ADVERTENCIA: Para reducir el riesgo de sufrir una descarga eléctrica, no retire la cubierta ni el panel posterior. En el interior no hay piezas que deba reparar el usuario. Solicite las reparaciones al personal de servicio calificado.

El rayo con punta de flecha dentro de un triángulo equilátero tiene la finalidad de avisar al usuario de que hay piezas en el interior del producto que si las tocan las personas éstas pueden recibir una descarga eléctrica.


El signo de exclamación dentro de un triángulo equilátero tiene la finalidad de avisar al usuario de la existencia de instrucciones de utilización y servicio importantes en el material impreso que acompaña al aparato.

ADVERTENCIA: Para reducir el riesgo de que se produzca un incendio o de sufrir una descarga eléctrica, no exponga este aparato a la lluvia ni a la humedad. No ponga encima del aparato (incluyendo estanterías que se encuentren encima del mismo, etc.) recipientes con agua (floreros, tazas, cosméticos, etc.).


ADVERTENCIA: Como cualquier objeto pequeño, las tarjetas SD pueden ser tragadas por niños pequeños. No deje la tarjeta SD al alcance de los niños.

ADVERTENCIA: 1) Para impedir recibir descargas eléctricas, no retire la cubierta. En el interior no hay piezas que deba reparar el usuario. Solicite las reparaciones al personal de servicio calificado.
2) No quite la clavija de puesta a tierra del enchufe de alimentación. Este aparato está equipado con un enchufe de alimentación de tres clavijas, una de las cuales sirve para hacer la puesta a tierra. Este enchufe sólo puede conectarse a un tomacorriente que también disponga de puesta a tierra. Esto constituye una medida de seguridad. Si no puede introducir el enchufe en el tomacorriente, póngase en contacto con un electricista. No anule la finalidad de la clavija de puesta a tierra.


Nota:
No permita que una imagen fija se muestre durante mucho tiempo, porque esto puede ser la causa de que quede una imagen fantasma permanente en la TV de plasma.
Los ejemplos de imágenes fijas incluyen logotipos, videojuegos, imágenes de computadora, teletexto e imágenes mostradas en el formato 4:3.




Fabricado bajo autorización de Laboratorios Dolby. “Dolby” y el simbolo doble-D son marcas registradas de los Laboratorios Dolby.



HDMI, el símbolo HDMI y la Interface de Multimedia de Alta Definición son marcas comerciales o marcas registradas de HDMI Licensing LLC.



: El logotipo SD es una marca comercial.



Bajo licencia de BBE Sound, Inc.
Licenciado de BBE Sound Inc. sobre el numero USP4638258, 4482866, 5510752 y 5736897.
BBE y el simbolo de BBE son marcas registradas de BBE Sound, Inc.

Este producto contiene tecnología de protección de derechos que esta protegida por patentes de los EEUU y otros derechos de propiedad intelectual. El uso de esta tecnología de protección de derechos debe ser autorizada por Macrovision Corporation, y es para uso en casa y otros casos limitados a menos que sea autorizado por Macrovision. La ingeniería reversible y desensamble estan prohibidas.
Patentes de los EEUU. 4,631,603; 4,577,216; 4,819,098; 4,907,093; 6,381,747; y 6,516,132.

Instrucciones de seguridad importantes

- 1) Lea estas instrucciones.
- 2) Guarde estas instrucciones.
- 3) Cumpla con todas las advertencias.
- 4) Siga todas las instrucciones.
- 5) No utilice este aparato cerca del agua.
- 6) Limpie el aparato solamente con un paño seco.
- 7) No tape las aberturas de ventilación.
- 8) No instale el aparato cerca de fuentes de calor como, por ejemplo, radiadores, salidas de aire caliente, estufas y otros aparatos (incluyendo amplificadores) que produzcan calor.
- 9) No anule la característica de seguridad del enchufe polarizado o del enchufe del tipo de puesta a tierra. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe de puesta a tierra tiene dos clavijas y una espiga de puesta a tierra. La clavija ancha y la espiga de estos enchufes han sido suministradas para su seguridad. Si el enchufe suministrado no puede conectarse al tomacorriente, consulte a un electricista para que le cambie el tomacorriente obsoleto.
- 10) Proteja el cable de alimentación para que no lo pisen ni lo pellizquen, especialmente en el enchufe, tomacorriente y en el punto donde sale del aparato.
- 11) Utilice solamente los accesorios especificados por el fabricante.
- 12) Utilice solamente el aparato con el carrito, base, trípode, soporte o mesa especificado por el fabricante o vendido con el aparato. Cuando se utilice un carrito, tenga cuidado al mover la combinación del carrito / aparato para evitar heridas en el caso de que ésta se dé la vuelta.
- 13) Desenchufe este aparato durante las tormentas eléctricas o cuando no lo utilice durante un largo periodo de tiempo.
- 14) Solicite todas las reparaciones al personal de servicio calificado. Las reparaciones resultan necesarias cuando el aparato se ha estropeado de cualquier forma: se ha estropeado el cable o el enchufe de alimentación, se ha derramado líquido o han caído objetos dentro del aparato, el aparato ha quedado expuesto a la lluvia o a la humedad, no funciona normalmente o se ha caído.
- 15) Para impedir las descargas eléctricas, asegúrese de que la patilla de puesta a tierra de la clavija del cable de alimentación de CA esté firmemente conectada.



Estimado cliente de Panasonic

Bienvenido a la familia de clientes de Panasonic. Esperamos que disfrute durante muchos años de su nuevo televisor de Plasma.

Para obtener el máximo beneficio de su televisor, lea estas instrucciones antes de hacer cualquier ajuste, y guárdelas para poder consultarlas en el futuro en caso de ser necesario.

Guarde también su recibo de compra, y anote el número del modelo y el número de serie de su televisor en el espacio provisto en la contraportada de estas instrucciones.

Visite nuestro sitio web Panasonic : www.panasonic.com

<p>Para solicitar ayuda, llame al: 1-888-VIEW-PTV (843-9788) o envíe correo electrónico a: consumerproducts@panasonic.com o visítenos en www.panasonic.com (EE.UU.)</p>

<p>Para solicitar ayuda, llame al: 787-750-4300 o visítenos en www.panasonic.com (Puerto Rico)</p>
--

Aviso de seguridad importante

DECLARACIÓN DE LA FCC

Este equipo ha sido probado y ha demostrado cumplir con los límites establecidos para dispositivos digitales de la Clase B, de conformidad con el Apartado 15 de las Normas de la FCC. Estos límites han sido diseñados para proporcionar una protección razonable contra las interferencias perjudiciales en una instalación residencial. Este equipo genera, utiliza y puede radiar energía radioeléctrica, y si no se instala y utiliza de acuerdo con las instrucciones, puede causar interferencias perjudiciales en las comunicaciones por radio. Sin embargo, no existe ninguna garantía de que las interferencias no se produzcan en una instalación particular. Si este equipo causa interferencias perjudiciales en la recepción de la radio o la televisión, lo que puede determinarse apagando y encendiendo el equipo, al usuario se le recomienda intentar corregir la interferencia tomando una o más de las medidas siguientes:

- Cambie la orientación o el lugar de instalación de la antena.
- Aumente la separación entre el equipo y el receptor.
- Conecte el equipo a una toma de corriente diferente de aquella a la que está conectada el receptor.
- Consulte a su concesionario o a un técnico en radio/TV con experiencia para solicitar su ayuda.

Este aparato cumple con el Apartado 15 de las Normas de la FCC. El funcionamiento está sujeto a las dos condiciones siguientes: (1) Este aparato no debe causar interferencias perjudiciales, y (2) debe aceptar cualquier interferencia recibida, incluyendo aquellas que puedan causar un funcionamiento no deseado.

AVISO DE LA FCC:

Para garantizar el cumplimiento continuo de las normas y evitar posibles interferencias no deseadas, cuando esta alta definición televisor de plasma se conecte a un equipo de vídeo deberán utilizarse los núcleos de ferrita suministrados; y deberá mantenerse una distancia de 40 cm como mínimo con relación a otros dispositivos periféricos. Consulte las instrucciones de las páginas 10, 13, 14, 17, 18.

Cualquier cambio o modificación realizado en este televisor sin la aprobación expresa de Matsushita Electric Corporation of América podría causar interferencias perjudiciales y anular la autoridad que tiene el usuario para utilizar este aparato.

Declaración de conformidad de la FCC

Número de modelo TH-37PX25, TH-42PX25, TH-50PX25

Responsable: Matsushita Electric Corporation of America
One Panasonic Way, Secaucus, NJ 07094

Dirección de contacto: Panasonic Consumer Electronics Company
1-888-843-9788
correo electrónico: consumerproducts@panasonic.com

Marcas comerciales y registradas

- VGA es una marca comercial de International Business Machines Corporation.
 - Macintosh es una marca registrada de Apple Computer, EE.UU.
 - S-VGA es una marca registrada de Video Electronics Standard Association.
- Aunque no se mencionen especialmente marcas comerciales de compañías o productos, tales marcas comerciales están plenamente reconocidas.

Índice

Instrucciones de seguridad importantes	3	Channel (Canal)	30
Aviso de seguridad importante	5	Favorite (Favorito)	30
Precauciones para su seguridad	7	Captions (Subtítulos)	31
Limpieza y mantenimiento	8	Timer (Temporizador)	33
Instalación	9	Sleep (Dormir)	33
Ubicación del receptor	9	Timer (Temporizador)	34
Equipo externo opcional	9	Clock Set (Puesta del reloj)	35
Instalación de las pilas en el control remoto	9	Day Set (Puesta del día)	35
Accesorios	10	Setup (Programación)	36
Conexión de cables	11	Program CH (Canal de programa)	36
Extracción y colocación de la cubierta de los cables ..	12	Auto Scan (Exploración automática)	37
Conexión de la antena	13	Manual Program (Programa manual)	37
Conexión de decodificador de televisión por cable	13	Closed Caption (Subtítulos ocultos)	39
Conexión de TV digital - "Set-Top Box" (DTV-STB) o DVD ..	14	Other Adjust (Otro ajuste)	41
Conexión de CableCARD	14	CableCARD (Tarjeta de cable)	41
Conexión HDMI	15	Lock (Bloqueo)	42
Conexión de una videgrabadora	16	Password (Contraseña)	42
Conexiones de un amplificador (TO AUDIO AMP)	16	Lock Set (Ajuste de bloqueo)	42
Conexión de salida de programas (PROG OUT)	17	Channel Lock (Bloqueo de canales)	43
Conexión de cascos auriculares / auriculares	17	Block Program (Bloquear programa)	43
Conexión a los terminales AV frontales	17	How Long? (¿Cuánto tiempo?)	45
Conexión de los terminales de entrada PC	18	Mensajes de bloqueo	45
Conexión/desconexión de la alimentación	19	Photo Viewer	46
Ubicación de los controles	19	Modo de imagen miniatura	48
Aparato principal	19	Setup Menu (Menú de programación) de Photo Viewer	49
Control remoto iluminado	20	Slide Show (Presentación de imágenes)	49
First Time Setup (Programación inicial)	22	Rotate (Girar)	50
Para ver programas de TV	23	Zoom	50
VHF y UHF	23	Card (Tarjeta)	50
Televisión por cable	23	Localización de fallas del Photo Viewer	51
Navegación por menús	24	Operación de imagen en imagen (PIP)	52
Picture (Imagen)	26	Operación SPLIT	54
Pic Mode (Modo de imagen)	26	Controles de ASPECTO	56
Color / Tint (Matiz) / Brightness (Brillo) /		PC MENU	57
Picture (Imagen) / Sharpness (Nitidez) / Normal	26	Funcionamiento de equipos periféricos utilizando el control remoto ..	59
Other Adjust (Otro ajuste)	26	Programación del código de control remoto	59
Audio	28	Índice de claves infrarrojas	60
Bass (Graves) / Treble (Agudos) / Balance / Normal ..	28	Tabla de teclas operacionales	63
Other Adjust (Otro ajuste)	28	Tabla de solución de problemas	65
		Señales de entrada de AV/Componente RGB/PC/HDMI ..	66
		Especificaciones	67

Precauciones para su seguridad

ADVERTENCIA

Instalación

No instale la televisor de plasma sobre superficies inclinadas o poco estables.

- La televisor de plasma puede caerse o darse vuelta.

No coloque objetos encima de la televisor de plasma.

- Si se derrama agua en la televisor de plasma o entran objetos extraños en su interior, se puede provocar un cortocircuito que causará fuego o descarga eléctrica. Si entran objetos extraños en el interior de la televisor de plasma, consulte con su tienda local de Panasonic.

No cubra los orificios de ventilación.

- La televisor de plasma puede calentarse excesivamente provocado fuego o daños en la televisor de plasma.

Si se utiliza un pedestal, deje un espacio de 3 15/16" (10 cm) o más en la parte superior, izquierda y derecha, 2 3/8" (6 cm) o más en la parte inferior y 2 3/4" (7 cm) o más en la parte posterior. Si se utiliza algún otro método de instalación, deje un espacio de 3 15/16" (10 cm) o más en la parte superior, inferior, izquierda y derecha y 3/4" (1,9 cm) o más en la parte posterior.

Evite instalar este producto cerca de equipos electrónicos que puedan ser afectados fácilmente por las ondas electromagnéticas.

- Este producto puede causar interferencias en la imagen, en el sonido, etc. En particular, mantenga los equipos de vídeo alejados de este producto.

Cable de alimentación de CA

La televisor de plasma fue diseñada para funcionar con una CA de 120 V, 50/60 Hz.

Inserte completamente el enchufe del cable eléctrico.

- Si el enchufe no ha entrado completamente puede generar calor y ser el origen de un incendio. Si el enchufe está dañado o el tomacorriente está flojo, no los utilice.

No toque el enchufe del cable eléctrico con las manos mojadas.

- Puede recibir una descargue eléctrica.

No haga nada que pueda dañar el cable eléctrico. Cuando desenchufe el cable eléctrico, sujete del enchufe y no el cable.

- No dañe el cable eléctrico, no lo modifique ni coloque objetos pesados encima, ni coloque cerca de objetos que desprendan calor, no tuerza ni tire excesivamente del mismo. Esto puede provocar un fuego o descarga eléctrica. Si el cable eléctrico está dañado, solicite la reparación en su tienda local de Panasonic.

Si no se utiliza la televisor de plasma durante un largo período de tiempo, desenchufe el cable eléctrico del tomacorriente.

Si se producen problemas durante el uso

Si se produce un problema (por ejemplo falta la imagen o sonido), o si sale humo o hay olores no normales de la televisor de plasma, desenchufe inmediatamente el cable eléctrico del tomacorriente.

- Si sigue utilizando la televisor de plasma en estas condiciones, puede provocar un fuego o descarga eléctrica. Después de comprobar que ha dejado de salir humo, llame a su tienda local de Panasonic para solicitar las reparaciones necesarias. No repare la Alta definición televisor de plasma por su cuenta ya que es muy peligroso.

Si entra agua o materias extrañas en el interior de la televisor de plasma, si se ha caído la televisor de plasma o si el mueble exterior está dañado, desenchufe inmediatamente el cable eléctrico.

- Puede provocar un cortocircuito que inicie un incendio. Llame a su tienda local de Panasonic para hacer las reparaciones necesarias.

Precauciones para su seguridad

PRECAUCION

Esta la televisor de plasma puede utilizarse sólo con los siguientes accesorios opcionales. El uso con cualquier otro tipo de accesorios opcionales puede causar inestabilidad y terminar provocando daños.

(Matsushita Electric Industrial Co., Ltd. fabrica todos los accesorios siguientes.)

- Pedestal (incluido) TY-ST42PX20 (TH-37PX25, TH-42PX25)
TY-ST50PX20 (TH-50PX25)
- Abrazadera de suspensión de pared (Vertical) TY-WK42PV3U
- Abrazadera de suspensión de pared (Anglado) TY-WK42PR2U
- Exhibir estante TY-S37PX20W (TH-37PX25)
TY-S42PX20W (TH-42PX25)
TY-S50PX20W (TH-50PX25)
TY-DP4201W (TH-37PX25, TH-42PX25, TH-50PX25)

Solicite ayuda de un técnico cualificado para realizar la instalación.

Quando utilice la televisor de plasma

No acerque sus manos, rostro u otros objetos cerca de los orificios de ventilación de la televisor de plasma.

- El aire que sale de los orificios de ventilación y de la parte superior de la televisor de plasma está caliente. No acerque sus manos, cara u objetos que no puedan soportar el calor, a estos orificios porque puede quemarse.

Desconecte todos los cables antes de mover la televisor de plasma.

- Si fuera necesario mover la televisor de plasma a otro lugar y se dejan algunos cables conectados, éstos pueden dañarse, provocar un incendio o una descarga eléctrica.

Desenchufe el cable eléctrico del tomacorriente como medida de seguridad antes de realizar una limpieza.

- Puede sufrir una descarga eléctrica si no lo hace.

Limpie el cable eléctrico a intervalos regulares para evitar que se cubra por el polvo.

- Si hay acumulación de polvo en el enchufe del cable eléctrico, la humedad puede acumularse y dañar el aislamiento, provocando un incendio. Desenchufe el cable eléctrico del tomacorriente y limpie con un paño seco.

Esta televisor de plasma radia rayos infrarrojos, y por lo tanto puede afectar a otros equipos de comunicación por infrarrojos. Instale su sensor de infrarrojos en un lugar alejado de la luz directa de su televisor de plasma o de la luz reflejada por ella.

Limpieza y mantenimiento

El frente del panel de la pantalla ha recibido un tratamiento especial. Limpie suavemente la superficie del panel utilizando el paño de pulido o un paño suave.

- Si la superficie está especialmente sucia, limpie con un paño suave empapado en agua o agua mezclada con una pequeña cantidad de detergente neutro, frote uniformemente con un paño seco del mismo tipo hasta que la superficie quede completamente seca.
- No raye o golpee la superficie del panel con sus uñas u otros objetos duros ya que la superficie puede dañarse. Además, evite el contacto con sustancias volátiles tales como rociadores de insecticida, disolventes y diluyentes de pintura, de lo contrario puede verse afectada la calidad de la superficie.

Si el mueble se ensucia, limpie con un paño suave y seco.

- Si el mueble está muy sucio, empape el paño en agua mezclada con una pequeña cantidad de detergente neutro y escurra el paño hasta eliminar el agua. Utilice el paño para limpiar el mueble y seque frotando con un paño seco.
- No permita que el detergente entre en contacto directo con la superficie de la Alta definición televisor de plasma. Si las gotas de agua entran en el interior del aparato, pueden surgir problemas en el funcionamiento.
- Evite el contacto con sustancias volátiles tales como rociadores de insecticida, disolventes y diluyentes de pintura debido a que puede verse afectada la superficie del mueble y puede desprenderse el revestimiento. Tampoco deje la superficie por mucho tiempo en contacto con artículos de caucho o PVC.

Nota:

No permita que una imagen fija se visualice durante mucho tiempo porque esto podrá ser la causa de que quede una imagen secundaria en la televisor de plasma.

Entre los ejemplos de imagen fija se incluyen logotipos, imágenes de videojuegos, imágenes de ordenador, teletexto e imágenes visualizadas en el modo 4:3.

Instalación

Ubicación del receptor

Este aparato ha sido diseñado para ser utilizado con una base o centro de entretenimiento opcional. Consulte a su concesionario para conocer las opciones que se encuentran disponibles. Coloque el aparato en un lugar que pueda verse confortablemente. Evite los lugares donde la luz del sol u otras luces brillantes (incluyendo los reflejos) caigan sobre la pantalla. La utilización de algunos tipos de iluminación fluorescentes puede reducir el alcance del control remoto. La ventilación adecuada es esencial para impedir que fallen los componentes internos. Mantenga el aparato alejado de las zonas donde el calor o la humedad son excesivos.

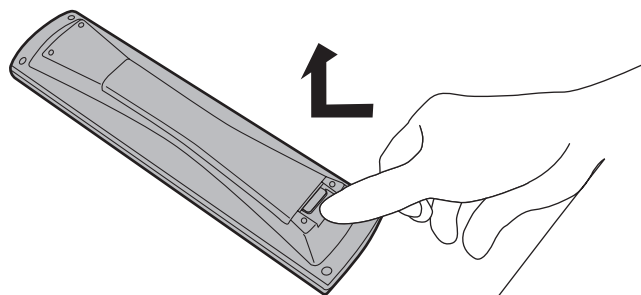
Equipo externo opcional

La conexión de vídeo/audio entre componentes se puede hacer con cables de vídeo y audio blindados. Para obtener el mejor rendimiento, los cables de vídeo deberán utilizar conductor blindado coaxial de 75 ohmios. Los cables podrá adquirirlos en el establecimiento de su concesionario o en tiendas de componentes electrónicos. Antes de comprar cualquier cable, asegúrese de conocer qué tipo de conectores de salida y entrada necesitan sus diversos componentes. Determine también cuál es la longitud del cable que necesita.

Instalación de las pilas en el control remoto

1. Abra la cubierta de las pilas.
2. Instale las pilas y vuelva a poner la tapa. Tenga en cuenta las polaridades (+ y -) al instalar las pilas.

Dos pilas AA



Accesorios

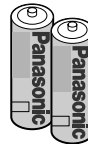
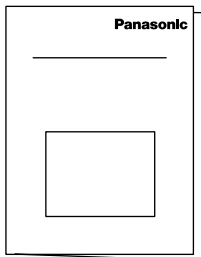
Compruebe que ha recibido todos los accesorios indicados



Manual de instrucciones

Transmisor del mando a distancia EUR7627Z10

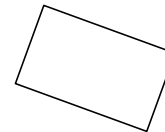
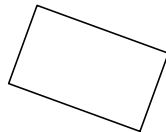
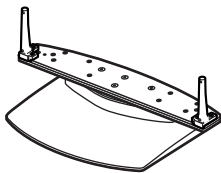
Pilas para el transmisor de mando a distancia (2 × tamaño AA)



Pedestal TY-ST42PX20 (TH-37PX25, TH-42PX25) TY-ST50PX20 (TH-50PX25)

Tarjeta de registro

Tarjeta para el plan de asistencia al cliente

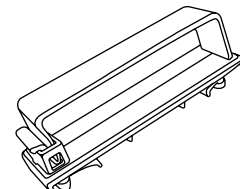
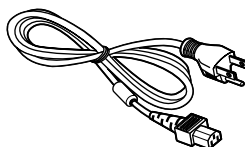
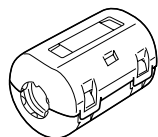
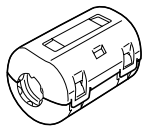


Núcleo de ferrita Tamaño pequeño × 5 Tamaño grande × 4

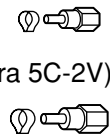
Cable de CA

Abrazadera (×2)

Adaptador de antena tipo F (para 3C-2V) (×2)

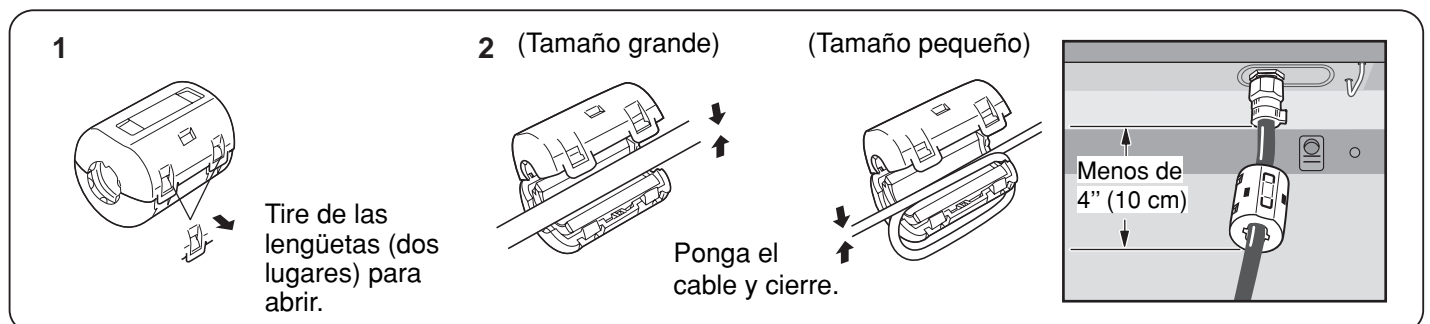


Adaptador de antena tipo F (para 5C-2V) (×2)

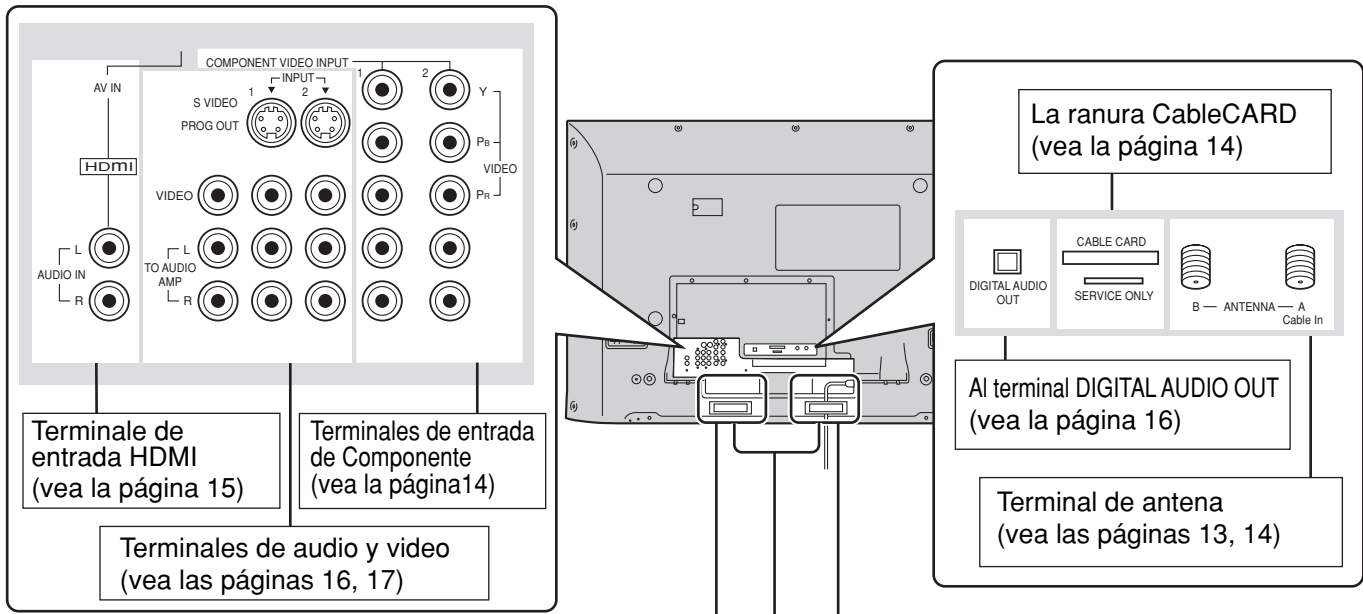
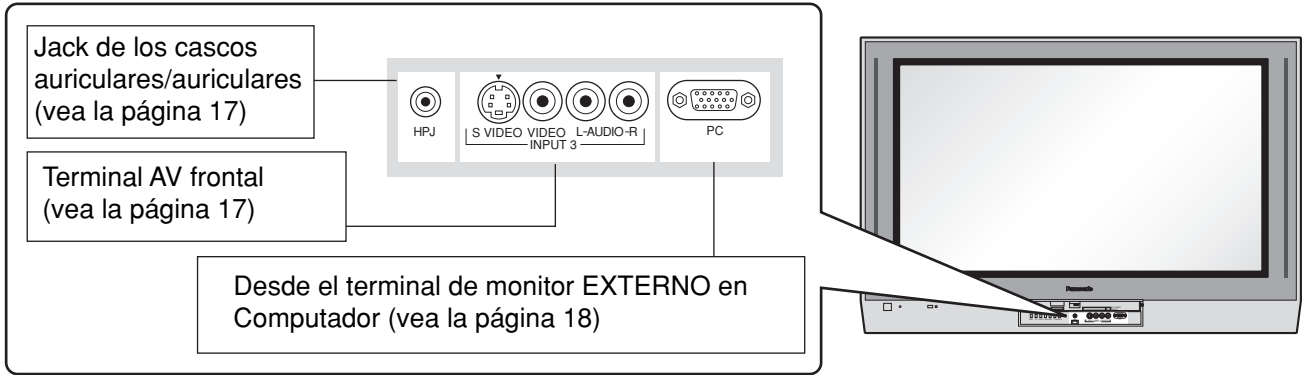


Instalación del núcleo de ferrita

Asegúrese de elegir el núcleo de ferrita del tamaño apropiado (grande o pequeño) y el modo de instalación correcto del cable (enrollando o pasando el cable), como se indica en cada diagrama de conexión de las páginas siguientes (13, 14, 17, 18).



Conexión de cables



Abrazadera



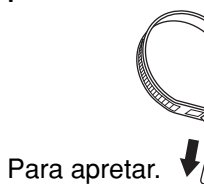
Apriete del cable de alimentación y otros cables

Método de apriete de otros cables

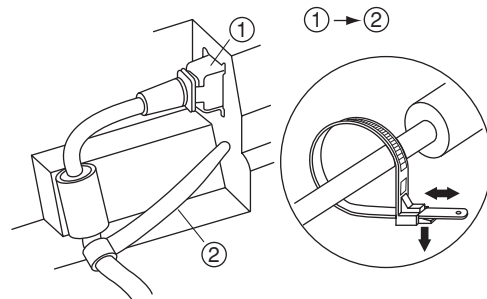
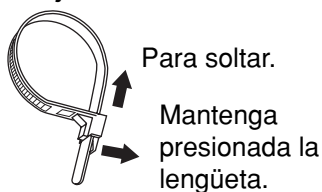
Coloque la abrazadera en el agujero de instalación y apriételes. Ate el cable con la abrazadera de apriete del cable.

Banda de apriete

Apriete



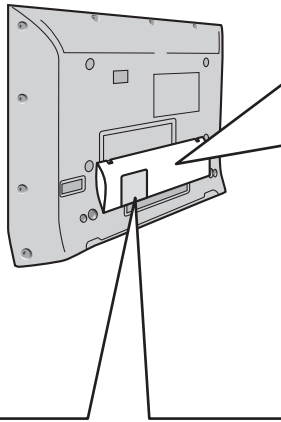
Aflojamiento



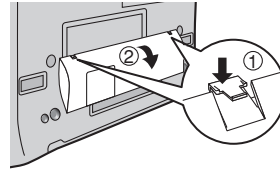
Método de apriete del cable de alimentación

1. Introduzca la clavija de alimentación en el cuerpo principal.
2. Apriete con la banda de apriete del cable de alimentación.

Extracción y colocación de la cubierta de los cables

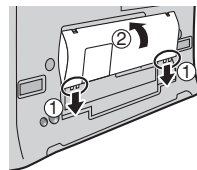


Extracción

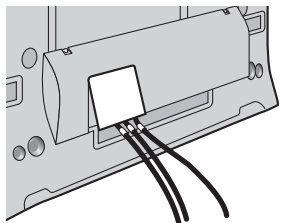


1. Empuje los ganchos hacia abajo y tire ligeramente de la cubierta hacia usted para soltarlos (en 4 puntos).
2. Sáquela lentamente hacia abajo.

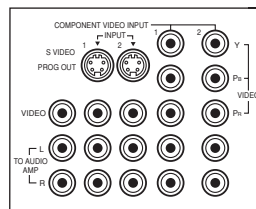
Colocación



1. Introduzca los ganchos (en 4 puntos) en el extremo inferior.
2. Empuje la cubierta hasta que quede enganchada haciendo un ruido seco.



Cuando haga conexiones a los terminales de entrada/salida de AV del panel trasero, conecte los cables a través de esta ventana.



Terminales de entrada/salida de AV del panel trasero

(Esta ventana no se puede cerrar completamente si usted conecta los cables.)

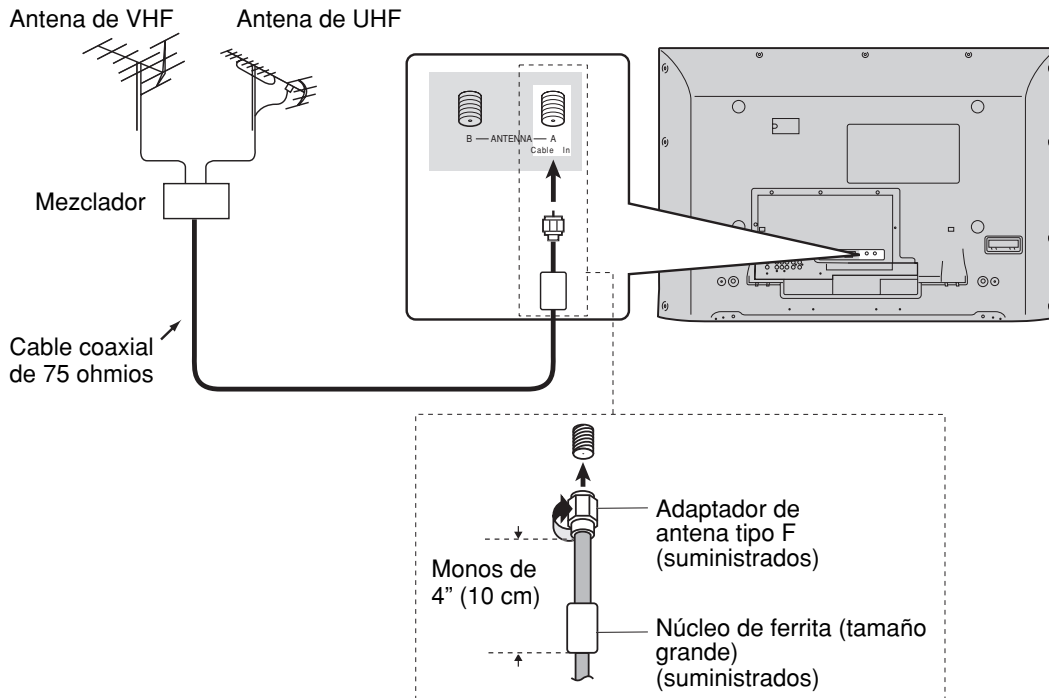
Otros cables deberán conectarse antes de colocar la cubierta de los cables.

Nota:

A menos que se indique lo contrario, los cables y los adaptadores no se suministran con este aparato.

Conexión de la antena

- Para recibir correctamente los canales de VHF/UHF se necesita una antena exterior. Para obtener la mejor recepción se recomienda una antena exterior.
- Cuando disfrute de los programas de TV terrestre solamente, conecte la antena de casa a ANTENNA (A). Cuando disfrute de los programas de TV terrestre y de los programas de TV por cable, **conecte el cable de TV por cable por cable a ANTENNA (A) y el cable de la antena terrestre a ANTENNA (B).**
- Seleccione el modo de antena en Input Setup (Programación de entrada) (vea la página 22).

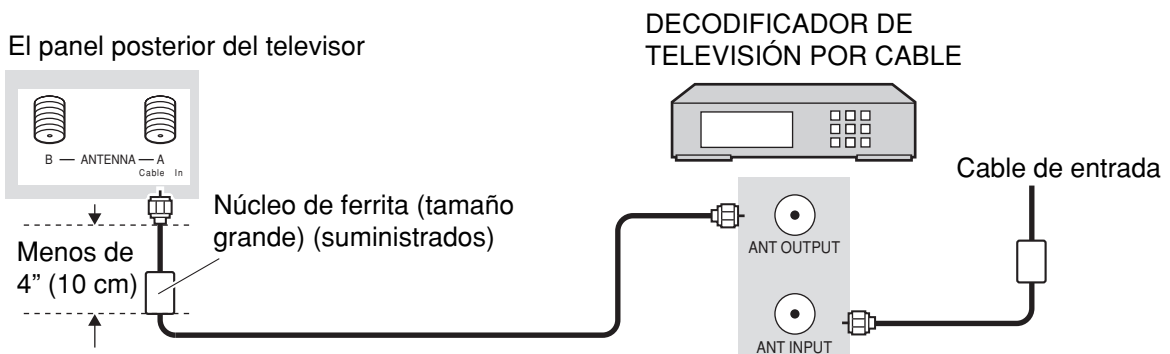


Notas:

- Ciertos sistemas de televisión por cable neutralizan algunos canales para reducir la interferencia o tener canales de alta calidad (codificados). En estos casos, para que la recepción sea apropiada, será necesario disponer de un decodificador de televisión por cable. Consulte con su compañía de televisión por cable para conocer los requerimientos de compatibilidad.
- Para obtener una imagen y un sonido de calidad óptima se necesita una antena, el cable correcto (coaxial de 75 ohmios) y la clavija de terminación correcta.
- Si se utiliza un sistema de antena comunitaria, tal vez necesite emplear una clavija y un cable de conexión correctos entre el zócalo de antena de pared y su receptor de televisión.
- El centro de servicio de televisión de su localidad o su concesionario podrán ayudarle a obtener el sistema de antena correcto para su zona particular y los accesorios necesarios.
- Cualquier tema relacionado con la instalación de la antena, la mejora de los sistemas o accesorios existentes requeridos y los gastos incurridos son responsabilidad exclusiva de usted, el cliente.

Conexión de decodificador de televisión por cable

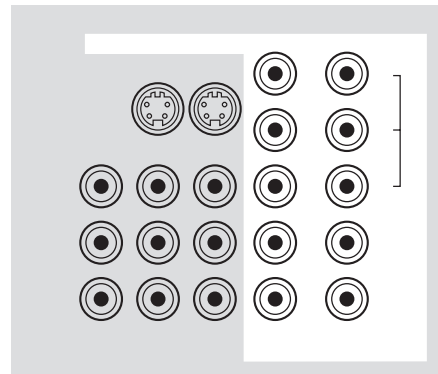
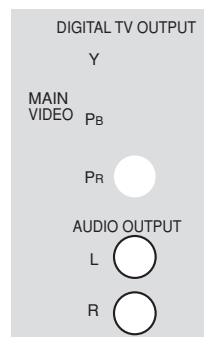
- Cuando disfrute de los programas de TV por cable solamente, conecte el cable de TV por cable a ANTENNA (A).
- Cuando disfrute de los programas de TV terrestre y de los programas de TV por cable, **conecte el cable de TV por cable por cable a ANTENNA (A) y el cable de la antena terrestre a ANTENNA (B).**
- Seleccione el modo de antena en Input Setup (Programación de entrada) (vea la página 22).



Conexión de TV digital - “Set-Top Box” (DTV-STB) o DVD

Este televisor es capaz de mostrar imágenes de DTV en formato 1080i y 480p cuando se conecta a un receptor de DTV-decodificador (STB). Este televisor utiliza también un doblador de barrido progresivo, el cual barre la imagen de formato NTSC de manera progresiva. Esto le permite no ver las delgadas líneas negras (efecto de persianas) que va relacionado con las imágenes de TV entrelazadas.

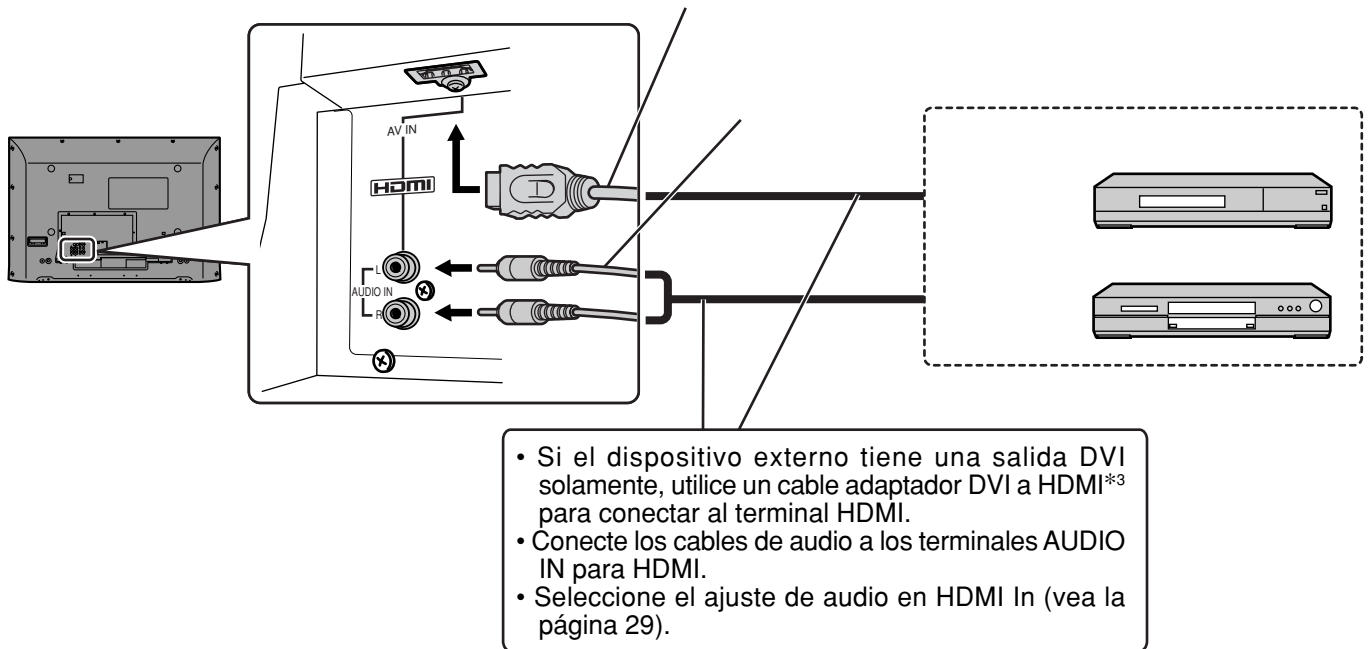
- Para ver programas de DTV, conecte el STB a los terminales de entrada de video componente (Y, P_B, P_R) del televisor. Las entradas separadas para las señales compuestas de color proveen la separación de luminancia y color.
- Seleccione la salida de 1080i o 480p del STB.
- Debe disponer en su zona de señales de DTV.
- Utilice un DTV-STB (TV digital/decodificador) o un reproductor DVD de Panasonic.



Conexión HDMI

HDMI*¹ (interfaz multimedia de alta definición) es la primera interfaz A/V para electrónica de consumidor completamente digital que soporta todos los estándares no comprimidos. El terminal HDMI soporta información de video y audio. Al terminal de entrada HDMI*¹, usted puede conectar un dispositivo electrónico de consumidor que cumpla con la norma EIA/CEA-861/861B*² como, por ejemplo, un decodificador o un reproductor DVD con terminales de salida HDMI o DVI.

Introduzca en este terminal una fuente de imagen de alta definición con protección digital de copia con alto ancho de banda (HDCP), para poder mostrar las imágenes de alta definición en este televisor en forma digital.



Este terminal de entrada no es para utilización con ordenadores.

Notas:

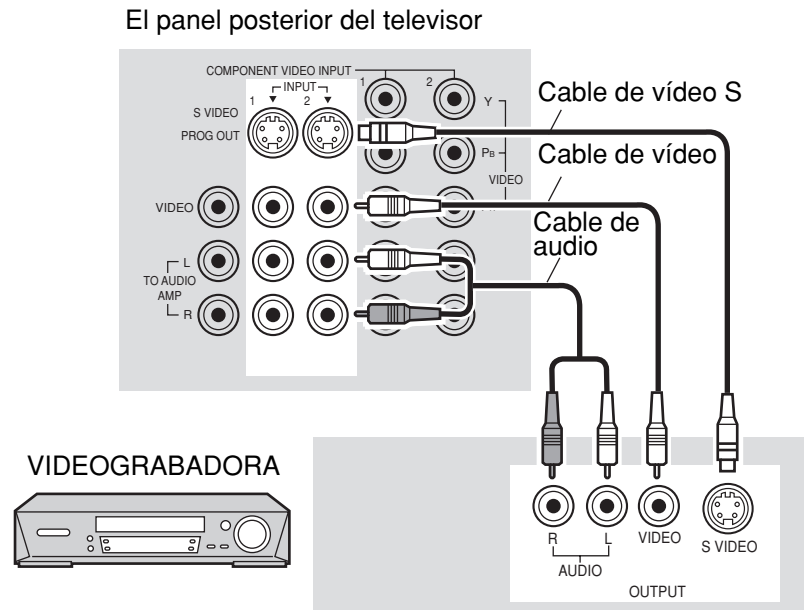
- Este conector HDMI es del Tipo A.
- Si conecta un equipo sin terminal de salida digital, conecte al terminal de entrada COMPONENT VIDEO, S VIDEO o VIDEO del televisor para disfrutar de la señal analógica.
- El terminal DIGITAL IN sólo puede utilizarse con señales de imagen 1080i, 480i o 480p. Ajuste la salida del terminal DIGITAL OUT de la caja digital sobre el aparato a 1080i, 480i o 480p. Para más detalles, consulte el manual de instrucciones de la caja digital sobre el aparato. Si no aparecen imágenes porque su caja digital sobre el aparato no tiene un ajuste de 0.5505 033n5 Td4(DIGIT115(5 Td(solastr terminaw 0.55 0 eo d5 T1.0udioastr terminaMPO)10(55 0 oan

*1. HDMI, el símbolo HDMI y la Interface de Multimedia de Alta Definición son marcas comerciales o marcas registradas de HDMI Licensing LLC.

*2. Los perfiles EIA/CEA-861/861B cumplen con los perfiles para transmisión de video digital sin comprimir/incluyendo la protección del contenido digital de alto ancho de banda.

*3. Cable de conversión HDMI-DVI (TY-SCHO3DH): disponible en el sitio Web de Panasonic (www.panasonic.com). Consulte a su concesionario de productos electrónicos para conocer más detalles.

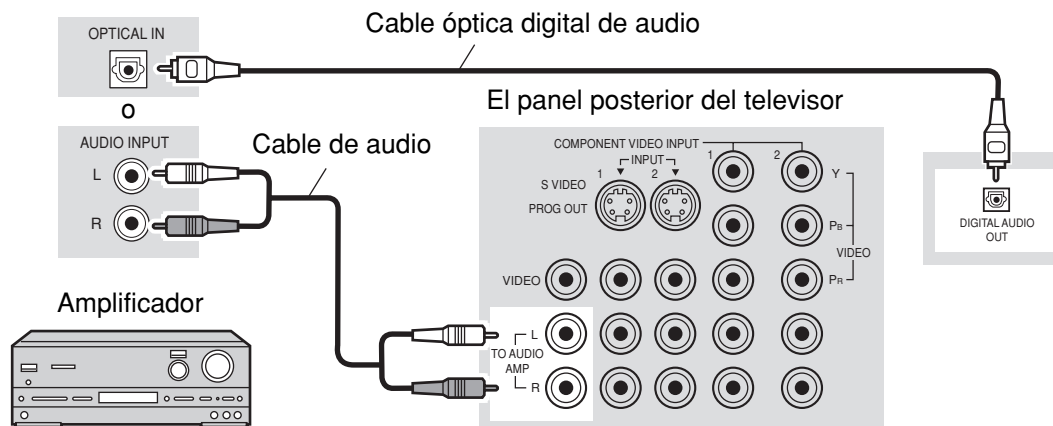
Conexión de una videograbadora



Conexiones de un amplificador (TO AUDIO AMP)

Para una disfrutar de un sonido de teatro en casa completo, un decodificador Dolby Digital* externo y un amplificador multicanal deben ser conectados al conector DIGITAL AUDIO OUT de su TV.

*El sonido envolvente Dolby Digital de 5.1 canales le permite tener sonido de calidad digital. Dolby Digital provee cinco canales discretos de ancho de banda completo para frontal izquierdo, frontal derecho, centro, envolvente izquierdo y envolvente derecho, más un canal de sub-graves LFE (Efecto de Baja Frecuencia).



Procedimiento

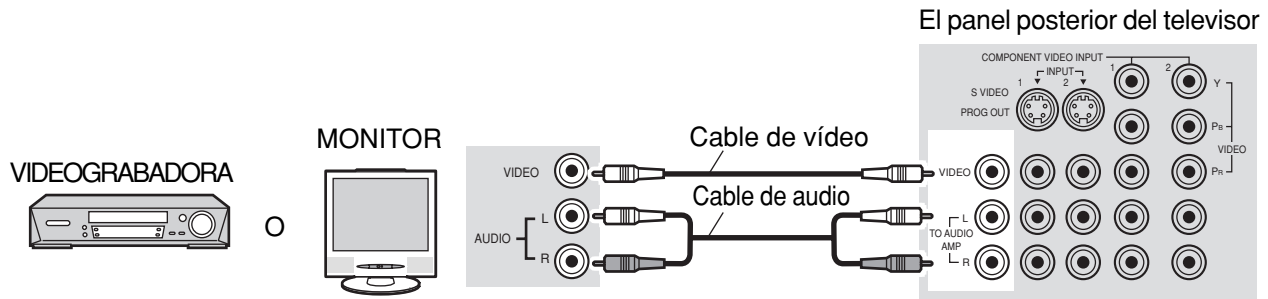
1. Seleccione "Off" (apagado) para Speakers (altavoces) en el menú Audio (vea la página 29).
2. Ajuste el amplificador al nivel deseado.

Notas:

- Los altavoces externos no se pueden conectar directamente a los terminales TO AUDIO AMP.
- Cuando se seleccione un canal ATSC, la salida procedente de la toma DIGITAL AUDIO OUT será Dolby Digital. Cuando se seleccione un canal NTSC, la salida será PCM.

Conexión de salida de programas (PROG OUT)

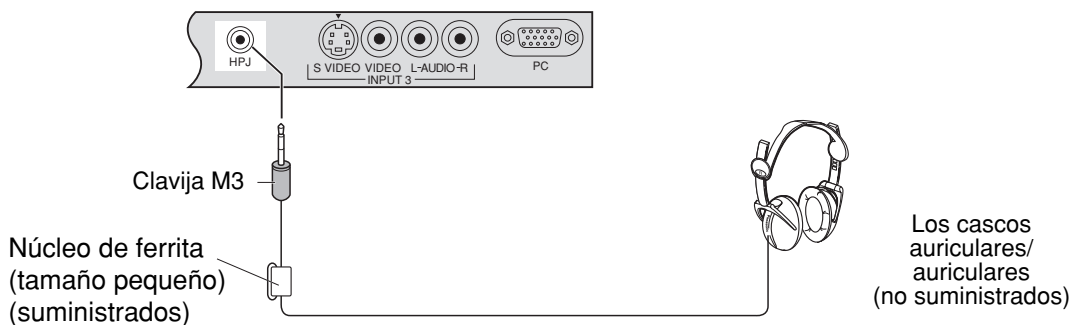
Consulte el manual del equipo opcional para conocer más instrucciones para la grabación y el monitoreo.



Notas:

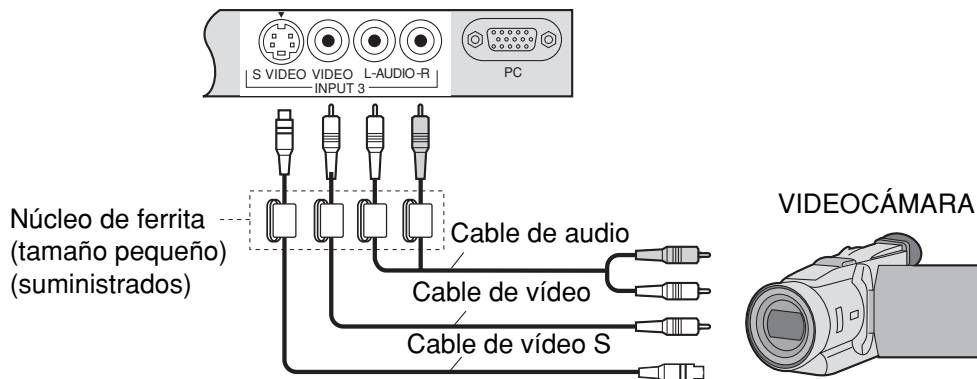
- Cuando se conecte un dispositivo (STB, DVD, etc.) al terminal HDMI (vea la página 15) no saldrá video ni audio debido a restricciones relacionadas con licencias.
- La señal de salida de programa puede no estar disponible cuando se selecciona la entrada COMPONENT (vea la página 20) para la imagen principal durante la operación PIP o SPLIT (vea las páginas 52, 54).
- Cuando reciba señales de canales digitales, todos los formatos digitales serán convertidos en sentido descendente en video NTSC compuesto que saldrá a través de los terminales de salida de programa.
- Algunos programas contienen señales de Macrovision para impedir la grabación en videocassetas.

Conexión de cascos auriculares / auriculares



Conexión a los terminales AV frontales

Empuje para abrir el panel frontal y conectar el equipo a los terminales frontales de entrada de audio/video.

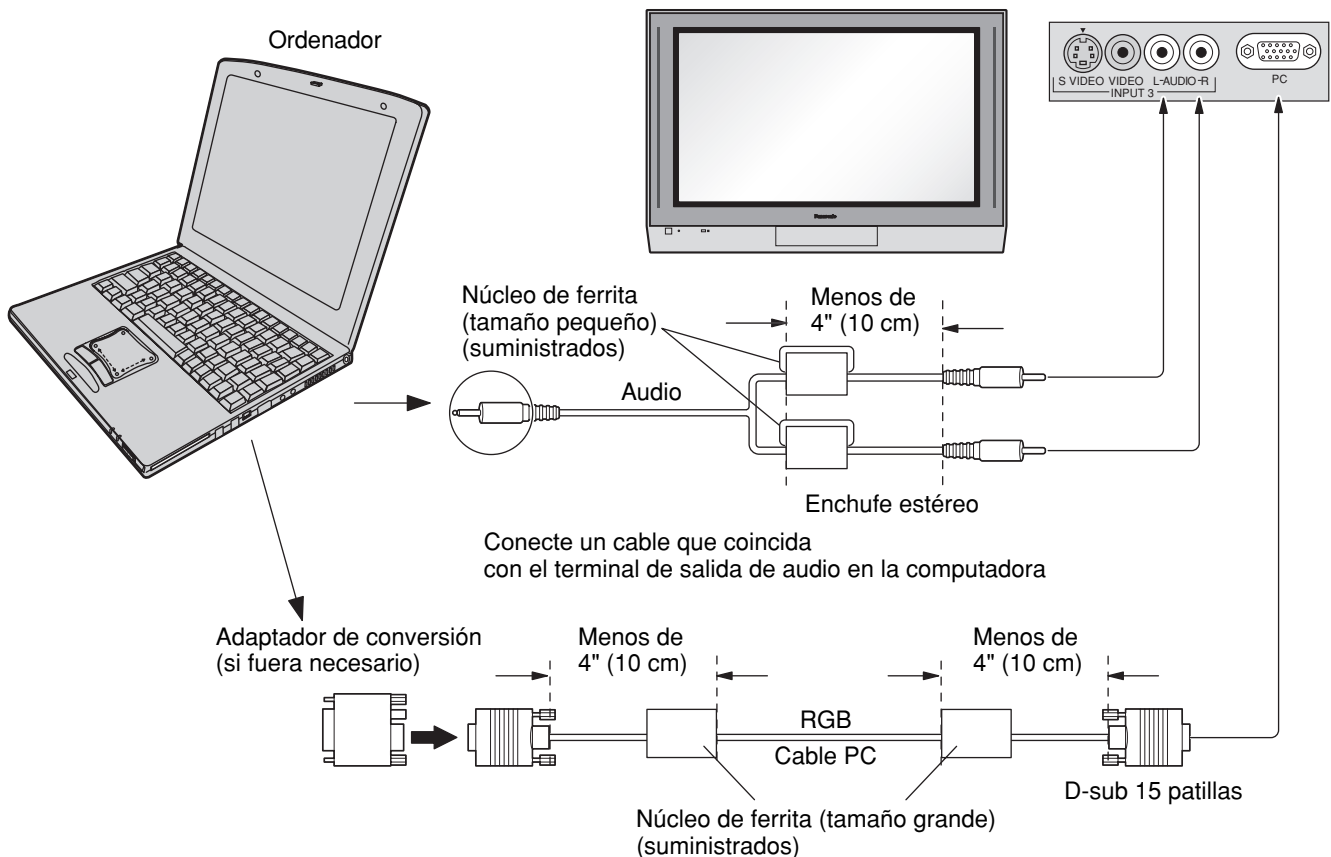


A los terminales de entrada de video también se puede conectar una segunda videocasetera, un reproductor de discos de video, una consola de videojuegos y un equipo DSS. Consulte el manual del equipo opcional para conocer más detalles.

Nota:

La conexión S-VIDEO proporciona una imagen de calidad más alta. Y tiene precedencia sobre otras condiciones VIDEO. Utilice INPUT 3, AUDIO L y R con la conexión S-VIDEO.

Conexión de los terminales de entrada PC



Notas:

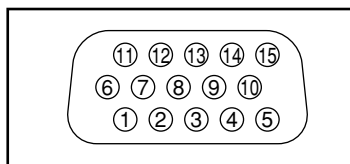
- (1) Las señales de ordenador que pueden entrar son las que tienen una frecuencia de exploración horizontal de 15 a 110 kHz y una frecuencia de exploración vertical de 48 a 120 Hz. (Sin embargo, las señales que exceden 1.200 líneas no se visualizarán correctamente.)
- (2) La máxima resolución:

Modelo	Aspecto	
	4:3	16:9
TH-37PX25	768 × 720	1.024 × 720
TH-42PX25	768 × 768	1.024 × 768
TH-50PX25	1.024 × 768	1.366 × 768

Si la resolución de la pantalla supera estos máximos, puede no ser posible mostrar los detalles finos con suficiente nitidez.

- (3) Algunos modelos de PC no pueden conectarse a la pantalla de plasma.
- (4) No es necesario un adaptador para con terminal D-sub 15 patillas compatibles con DOS/V.
- (5) Esta figura es sólo a modo de ejemplo.
- (6) Los equipos y cables adicionales de la figura no se suministran con este equipo.
- (7) No ajuste las frecuencias de exploración horizontal y vertical para las señales de PC a niveles que están por encima o por debajo de la gama de frecuencias especificada.

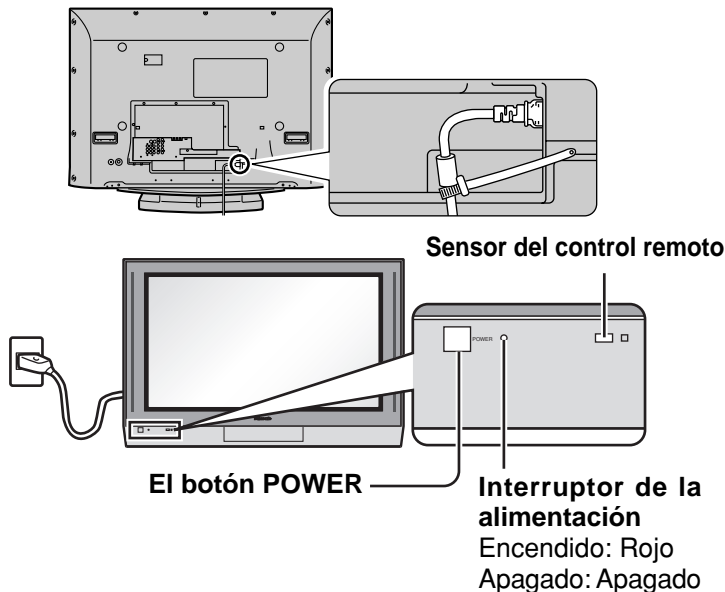
Nombres de las señales del conector D-sub 15 patillas



Forma de las patillas para el terminal de entrada PC


Nº patilla	Nombre de la señal	Nº patilla	Nombre de la señal	Nº patilla	Nombre de la señal
①	R	⑥	GND (tierra)	⑪	NC (no conectado)
②	G	⑦	GND (tierra)	⑫	NC
③	B	⑧	GND (tierra)	⑬	HD/SYNC
④	NC (no conectado)	⑨	NC (no conectado)	⑭	VD
⑤	GND (tierra)	⑩	GND (tierra)	⑮	NC

Conexión/desconexión de la alimentación



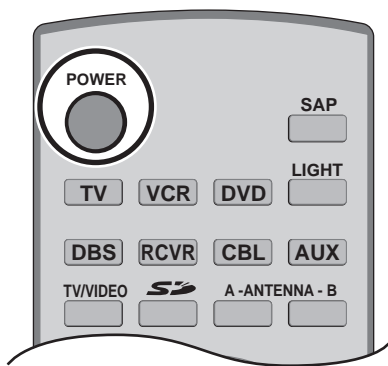
- 1 Conecte el enchufe del cable de CA al televisor con pantalla de plasma.
 - Fije firmemente el enchufe del cable de CA con la abrazadera (vea la página 11).

- 2 Conecte el enchufe al tomacorriente.

- 3  Presiónelo para encender o apagar el televisor.

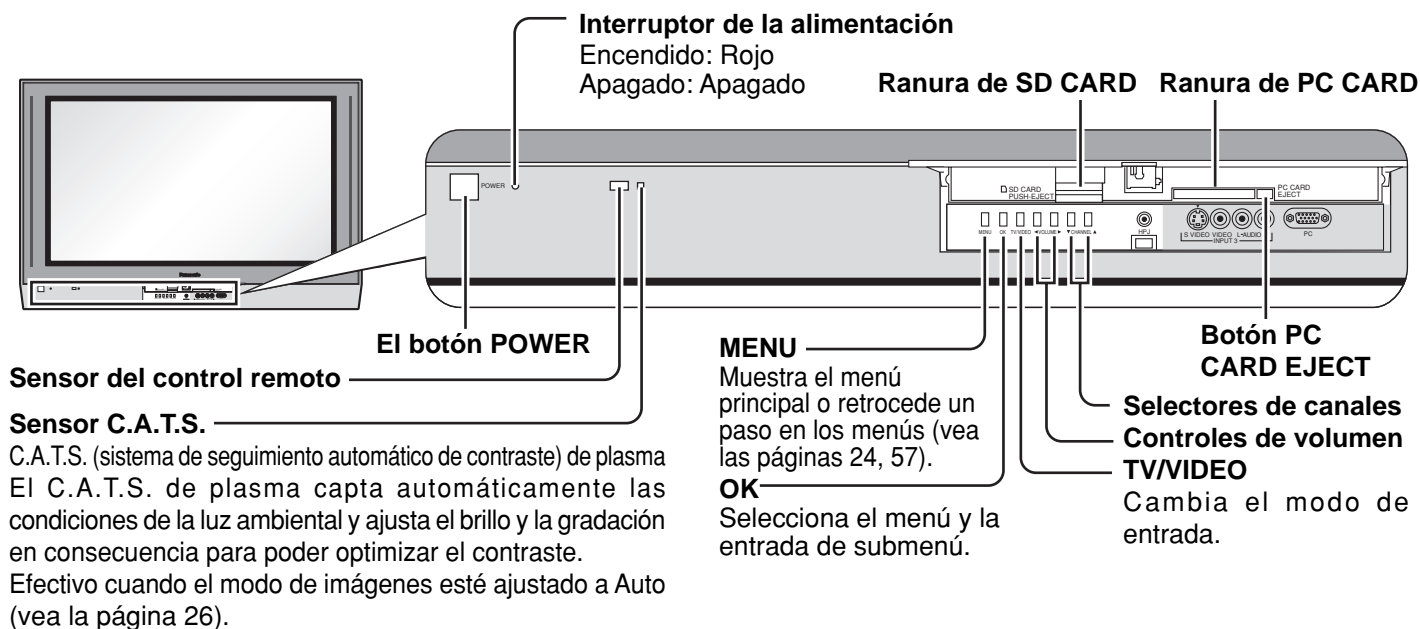
Nota:

El televisor consumirá algo de energía siempre que el cable de alimentación esté conectado a una toma de corriente.



Ubicación de los controles

Aparato principal



Sensor del control remoto

Sensor C.A.T.S.
 C.A.T.S. (sistema de seguimiento automático de contraste) de plasma
 El C.A.T.S. de plasma capta automáticamente las condiciones de la luz ambiental y ajusta el brillo y la gradación en consecuencia para poder optimizar el contraste.
 Efectivo cuando el modo de imágenes esté ajustado a Auto (vea la página 26).

MENU
 Muestra el menú principal o retrocede un paso en los menús (vea las páginas 24, 57).

OK
 Selecciona el menú y la entrada de submenú.

Botón PC CARD EJECT

Selectores de canales
Controles de volumen
TV/VIDEO
 Cambia el modo de entrada.

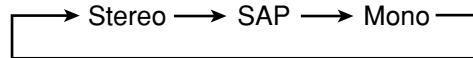


SAP

- Canal digital
Selecciona la pista de audio (si está disponible).

Audio Track 1 of 1 (English)

- Canal analógico
Cambia entre los diferentes modos de audio.
Ej.: Si se recibe estéreo, SAP y mono o si se recibe estéreo y mono solamente:



LIGHT

Enciende los botones del control remoto. El botón seleccionado parpadea cuando está encendida esta luz.

A -ANTENNA - B

Cambia a entrada de antena de RF (A o B).

MUTE

Púselo para silenciar el sonido. Púselo de nuevo para cancelar el silenciamiento.

ASPECT

Cambia el aspecto de la pantalla (vea la página 56).

BBE

Apaga o enciende BBE VIVA 3D (vea la página 29).

RECALL

Muestra o cancela la información de canales.

Designación de antena, número de canal y programa, e identificador de emisora.

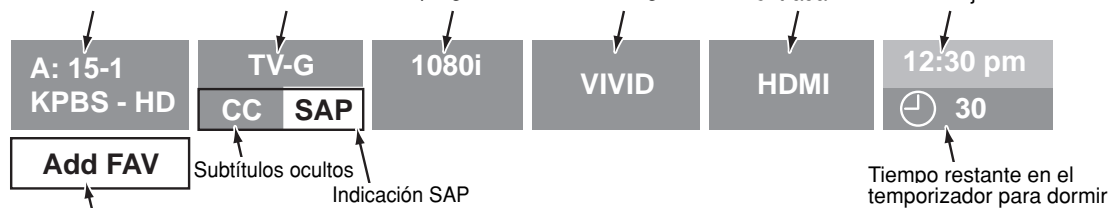
Clasificación

Aspecto de programa

Ajuste del modo de imagen

Número de canal PIP/SPLIT o información de entrada

Reloj



Presione el botón OK para agregar un canal a la lista de canales favoritos o para borrarlo de la misma (vea la página 30).

▲ CH: Cambia al siguiente canal superior

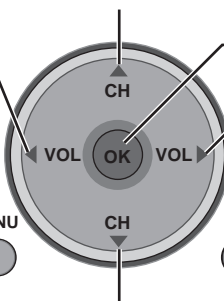
▲ : Mueve el cursor hacia arriba durante el modo del menú.

◀ VOL : Reduce el volumen.

◀ : Mueve el cursor hacia la izquierda durante el modo del menú.

MENU

Muestra el menú principal o retrocede un paso en los menús (vea las páginas 24, 57).



Selecciona el menú y la entrada de submenú.

VOL ▶: Aumenta el volumen
▶ : Mueve el cursor hacia la derecha durante el modo del menú.

EXIT

Salida los menús.

▼ CH: Cambia al siguiente canal inferior

▼ : Mueve el cursor hacia abajo durante el modo del menú.

Botones de selección directa de números de programas

PROG —: Cuando se sintonicen canales digitales, presione el botón para introducir el número menor en un número de canal complejo.

- Para introducir el número del canal
Ej.: CH 15-1: [1] → [5] → [-] → [1] → [OK]

First Time Setup (Programación inicial)

Para su conveniencia, el menú First Time Setup (Programación inicial) se mostrará en la pantalla cuando se encienda el televisor por primera vez. Si lo necesita, siga los menús y los procedimientos mostrados en la pantalla para programar las funciones. También puede hacer ajustes en el menú Setup (vea las páginas 36, 37).



Input Setup (Programación de entrada)

Seleccione la configuración de la entrada de RF dependiendo de la fuente de señales.

First Time Setup		
Input Setup	Setting	Cable/Antenna
Auto Scan		

- Presione para seleccionar Input Setup (Programación de entrada).

Presione para seleccionar Cable only (Cable solamente), Cable/Antenna (Cable/Antena) o Antenna only (Antena solamente).

Presione para introducir su elección.
- Presione para empezar Auto Scan (Exploración automática). Todos los canales disponibles con una señal se programarán en la memoria.

Auto Scan (Exploración automática)

Esta función le permite realizar la exploración automática de canales selectivamente. Puede explorar todos los canales, los analógicos solamente o los analógicos y digitales.

- Presione para seleccionar Auto Scan (Exploración automática).

Presione para introducir el campo de submenús.
- Presione para seleccionar el submenú.

Presione para empezar Auto Scan (Exploración automática). Después de completarse Auto Scan (Exploración automática), el televisor sintoniza el primer canal encontrado durante Auto Scan (Exploración automática).

First Time Setup	
Input Setup	Scan All
Auto Scan	Antenna (A) Analog
	Antenna (A) Analog & Digital
	Antenna (B) Analog
	Antenna (B) Analog & Digital

Para volver al menú anterior

Presione .

Para salir de la pantalla de menú

Presione .



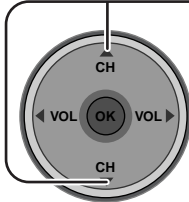
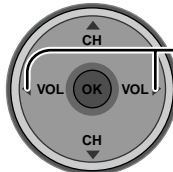
Notas:

- Si se presiona el botón EXIT en cualquier momento durante Auto Scan (Exploración automática), Auto Scan (Exploración automática) se cancelará y el televisor volverá a el menú First Time Setup (Programación inicial).
- Si se encuentra presente un CableCARD durante First Time Setup (Programación inicial) y Antenna (A) (Antena A) está puesta en Cable, Antenna (A) (Antena A) no será explorada debido a que el CableCARD provee el mapa de canales.

Para ver programas de TV

VHF y UHF



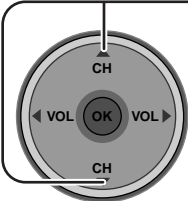


-  Presione para controlar el televisor con el control remoto.
-  Presione para encender el televisor.
-  Presione para seleccionar el canal deseado.
-  Seleccione el nivel del volumen deseado.

Notas:

- El número del canal y el nivel del volumen se fijan incluso después de apagar el televisor.
- El consumo de energía y el aullido del sonido se pueden reducir si se baja el nivel del volumen.

Televisión por cable

Asegúrese de haber completado el registro con el proveedor de TV por cable y la conexión del equipo.

-  Seleccione el canal de TV 3 ó 4.
-  Presione para controlar el sintonizador de cable con el mando a distancia.
-  Presione para encender el sintonizador de cable.

Notas:

- El número de código del control remoto se establece para los productos Panasonic.
- Para controlar el producto de otro fabricante (vea las páginas 59 - 64).

Navegación por menús

1

MENU



Presione para visualizar el menú principal.

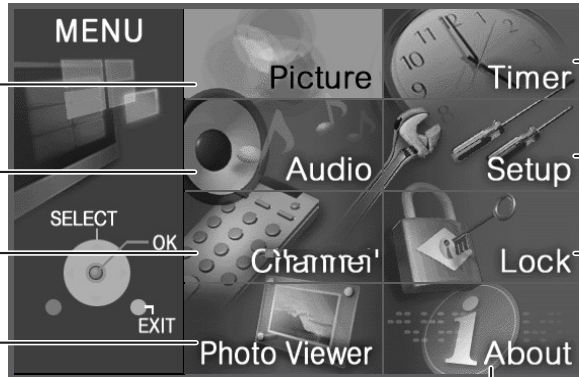


Picture (Imagen)
(vea la página 26)

Audio
(vea la página 28)

Channel (Canal)
(vea la página 30)

**Photo Viewer
(Modo de
previsualización)**
(vea la página 46)



**Timer
(Temporizador)**
(vea la página 33)

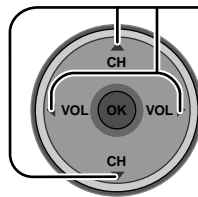
**Setup
(Programación)**
(vea la página 36)

**Lock
(Bloqueo)**
(vea la página 42)

About (Acerca de)

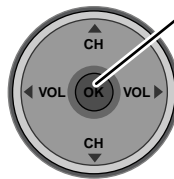
La pantalla About (Acerca de) muestra información diversa acerca del televisor. Prepare esta información cuando llame al centro de asistencia al cliente.

2



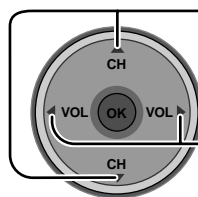
Presione para seleccionar el menú.

3



Presione para introducir el campo de submenú.

4



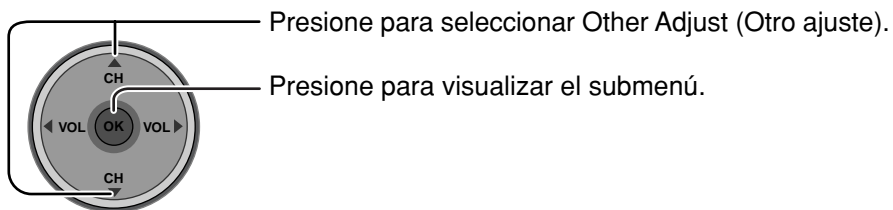
Presione para seleccionar el submenú.

Presione para ajustar el submenú.

Ej.: Menú Picture (Imagen)

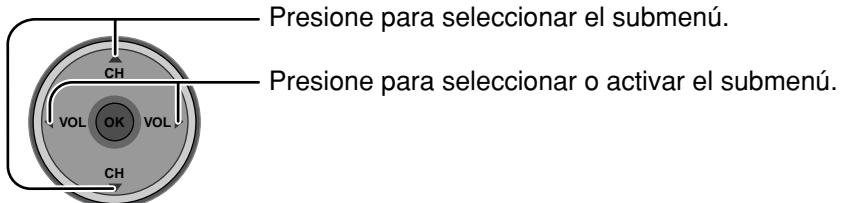
Picture	
Pic Mode	Vivid
Color	31
Tint	31
Brightness	26
Picture	63
Sharpness	50
Normal	No
Other Adjust	

1 [Para seleccionar el submenú Other Adjust (Otro ajuste)]

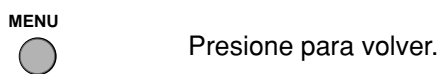


Other Adjust	
Color Temp	Cool
Natural Color	On
Video NR	Off
3D Y/C Filter	Off
Color Matrix	HD
Freeze	Split

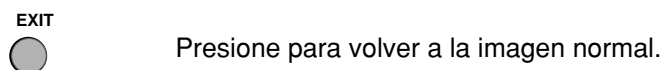
2



Para volver a la pantalla anterior



Para salir de los menús

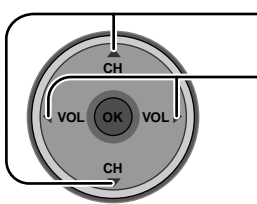


Picture (Imagen)

Picture	
Pic Mode	Vivid
Color	31
Tint	31
Brightness	26
Picture	63
Sharpness	50
Normal	No
Other Adjust	

Pic Mode (Modo de imagen)

Le permite elegir los modos de imagen preestablecidos más apropiados para el programa que usted está viendo. Esta función también afecta al ajuste Color Temp (Temperatura del color) (vea la página 27).



Presione para seleccionar Pic Mode.

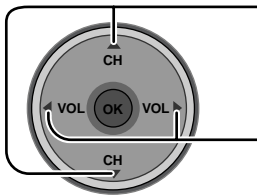
Presione para seleccionar el modo de imagen.

- Vivid (Vívido) (predeterminado) : Provee un contraste y una nitidez de imagen realzados para ver programas en una habitación bien iluminada.
- Standard (Estándar) : Recomendado para ver bajo condiciones normales en una habitación con iluminación atenuada.
- Cinema (Cine) : Para ver películas en una habitación oscura. Proporciona una imagen suave, como la del cine.
- Auto : Capta automáticamente las condiciones de la luz ambiental y ajusta el brillo y la gradación en consecuencia para poder optimizar el contraste.

Nota:

Cada modo tiene sus propios ajustes de imagen [Color, Tint (Matiz), Brightness (Brillo), Picture (Imagen) y Sharpness (Nitidez)].

Color / Tint (Matiz) / Brightness (Brillo) / Picture (Imagen) / Sharpness (Nitidez) / Normal

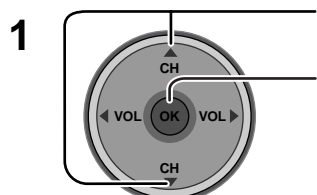


Presione para seleccionar el submenú.

Presione para ajustar el submenú.

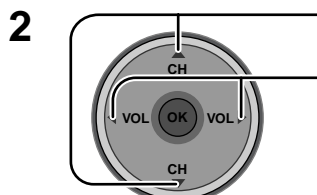
Elemento	Explicaciones
Color	Ajusta la intensidad de color deseada.
Tint	Ajusta los tonos naturales de la piel.
Brightness	Ajusta las partes oscuras de la imagen.
Picture	Ajusta las partes blancas de la imagen.
Sharpness	Ajusta la calidad de los detalles.
Normal	Repone los ajustes de imagen a los ajustes predeterminados en fábrica.

Other Adjust (Otro ajuste)



Presione para seleccionar Other Adjust (Otro ajuste).

Presione para visualizar el submenú.

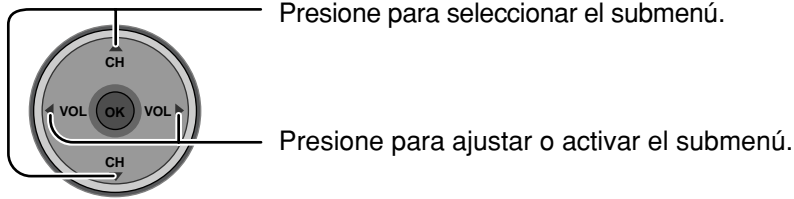


Presione para seleccionar el submenú.

Presione para seleccionar o activar el submenú.

Other Adjust	
Color Temp	Cool
Natural Color	On
Video NR	Off
3D Y/C Filter	Off
Color Matrix	HD
Freeze	Split

■ Color Temp (Temperatura del color) / Natural Color (Color natural) / Video NR (Reducción de ruido de video) / 3D Y/C Filter (Filtro Y/C 3D)

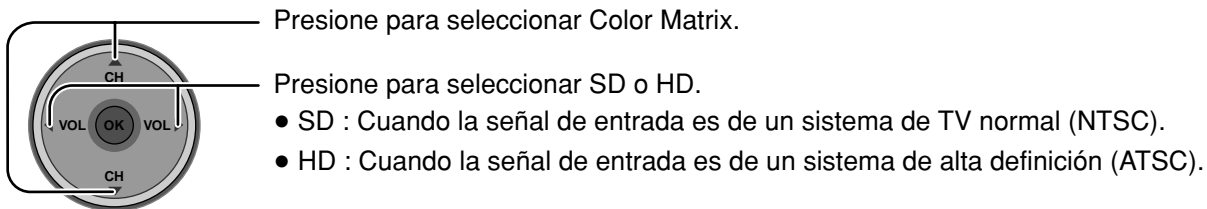


Elemento	Explicaciones
Color Temp (temperature)	Para aumentar o disminuir los colores Warm (rojo) y Cool (azul) según las preferencias personales.
Natural Color	Para aumentar la gama de reproducción de colores con una gradación de colores natural y tonos sumamente delicados.
Video NR	Reduce el ruido en el canal, comúnmente llamado efecto de nieve. Permanece en Off cuando se recibe una señal intensa.
3D Y/C Filter	Minimiza el ruido y la diafotía cromática de la imagen.

■ Color Matrix

Muestra imágenes 480p con un color natural procedentes de adaptadores de equipos digitales conectados a los terminales COMPONENT VIDEO INPUT (Y, P_B, P_R).

Seleccione HD o SD para ajustar automáticamente los parámetros del color para HD (alta definición) y SD (definición estándar).

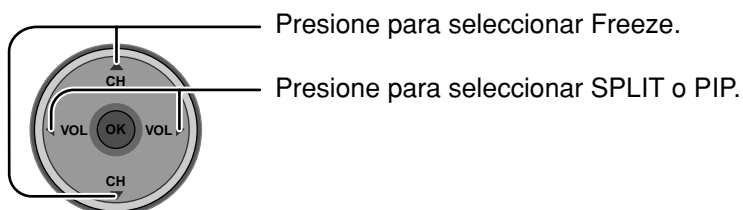


Notas:

- Esta función sólo se encuentra disponible con imágenes 480p, y no se encuentra disponible con programas de televisores (NTSC) convencionales.
- Cuando vea un formato de señal DTV que no sea estándar, usted podrá cambiar manualmente los parámetros del color para obtener la mejor calidad de la imagen.

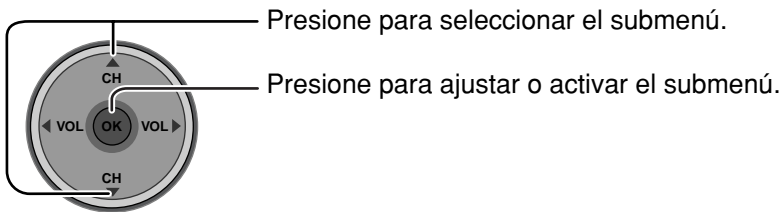
■ Freeze (Congelar)

Esta función se utiliza para congelar la imagen principal y mostrarla en un cuadro PIP o SPLIT, cuando se presiona el botón **FREEZE** del control remoto. Presione de nuevo **FREEZE** para borrar el cuadro (vea las páginas 53, 55).

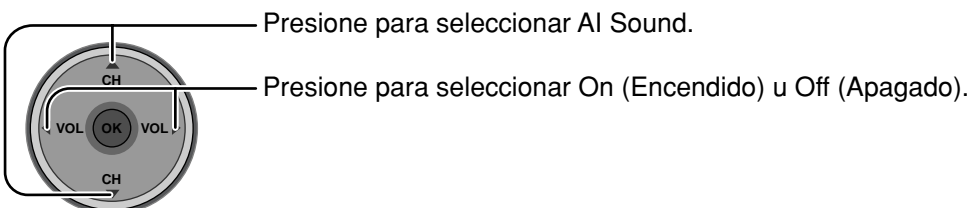
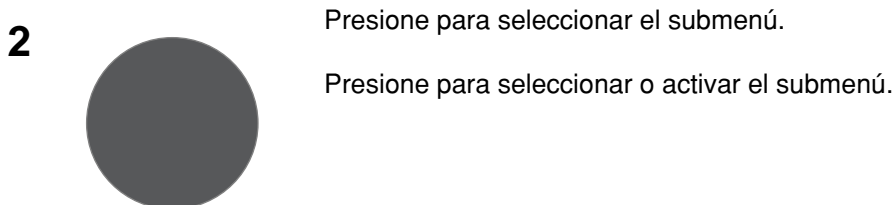
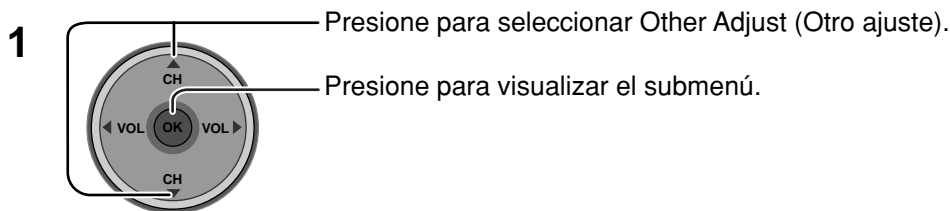


Audio

Audio	
Bass	7
Treble	7
Balance	31
Normal	Set
Other Adjust	



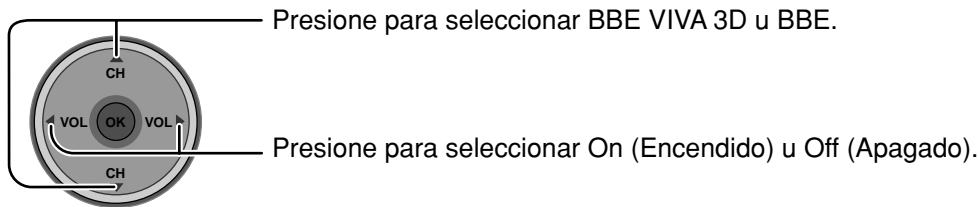
Elemento	Explicaciones
Bass	Aumenta o disminuye la respuesta de los graves.
Treble	Aumenta o disminuye la respuesta de los agudos.
Balance	Realza el volumen de los altavoces izquierdo / derecho.
Normal	Repone los ajustes de Graves, Agudos y a Balance los ajustes predeterminados en la fábrica.



■ BBE VIVA 3D / BBE

BBE VIVA 3D BBE VIVA 3D provee una imagen precisa natural 3D con sonido hi-fi. La claridad del sonido es mejorada por BBE mientras el ancho, profundidad y altura de la imagen del sonido 3D BBE. BBE VIVA 3D es compatible con toda la programación de TV incluyendo noticias, musica, dramas, películas y deportes así como también juegos electrónicos. BBE VIVA 3D mejora el efecto del sonido envolvente, mientras mantiene la claridad del dialogo.

BBE La tecnología de sonido BBE mejora el entendimiento de los discursos y restaura el rango dinámico de pasajes musicales para proveer un sonido natural sobresaliente.

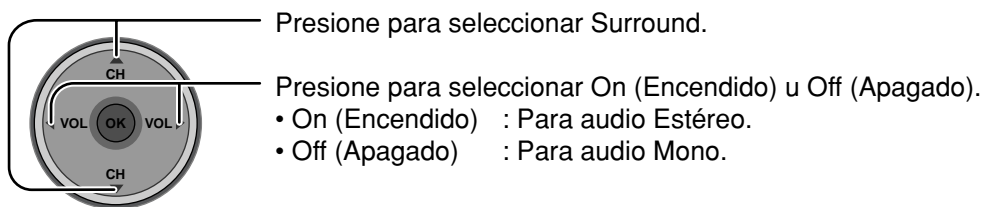


Notas:

- Cuando "BBE VIVA 3D" se pone en "On (Encendido)", puesta "BBE" y "Surround" se fija en "On (Encendido)".
- Cuando "BBE VIVA 3D" se pone en "Off (Apagado)", "BBE" y "Surround" se puede fijar individualmente.

■ Surround (Sonido envolvente)

Mejora la respuesta de audio cuando se escucha sonido estéreo.

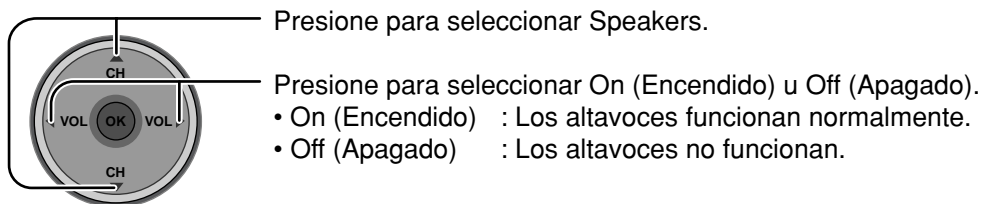


Nota:

Esta función se efectiva cuando BBE VIVA 3D esté ajustado a Off (apagado).

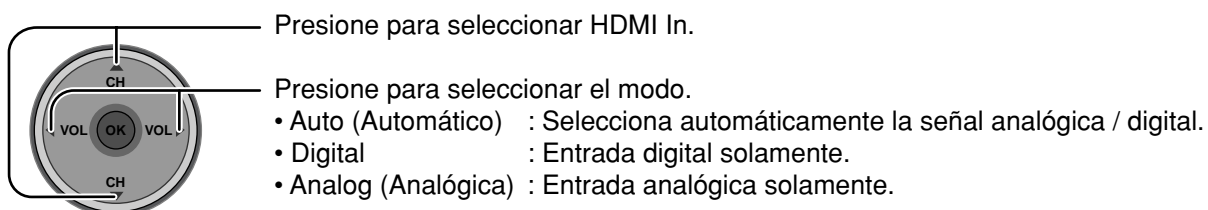
■ Speakers (Altavoces)

Esta función se utiliza para encender o apagar los altavoces del televisor (vea la página 16, Conexiones de un amplificador).

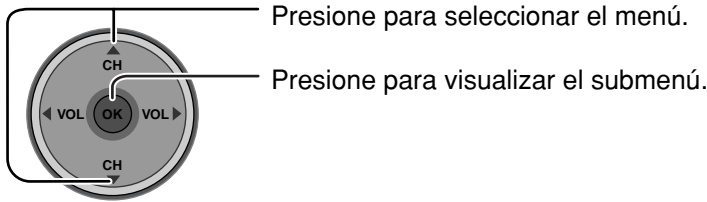


■ HDMI In (Entrada HDMI)

Cuando se utiliza HDMI (vea la página 15), esta función le permitirá cambiar entre entrada analógica y entrada digital.



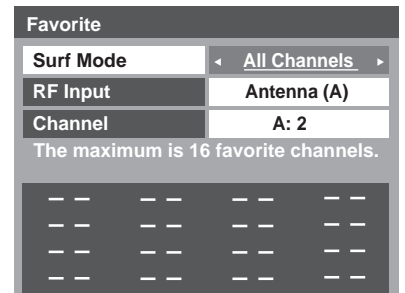
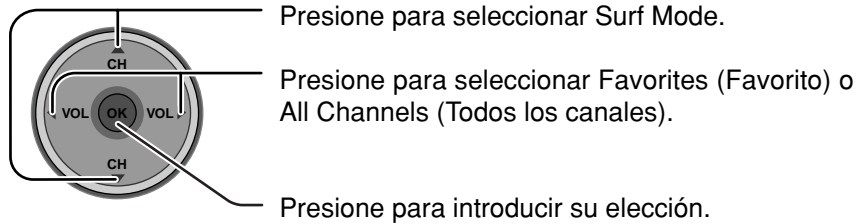
Channel (Canal)



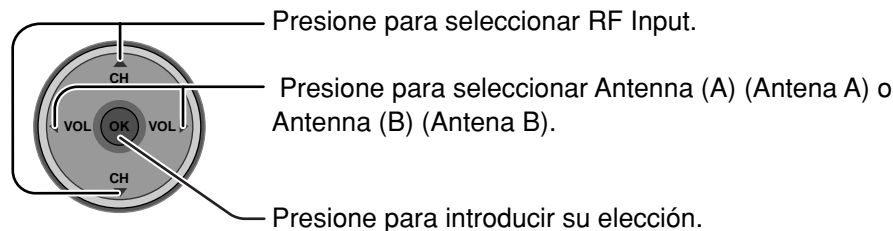
Favorite (Favorito)

Le permite crear una lista de canales favoritos desde Antenna (A) (Antena A) o Antenna (B) (Antena B).

■ Surf Mode (Modo surf)

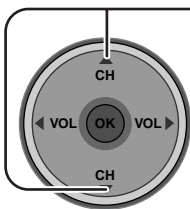


■ RF Input (Entrada de RF)

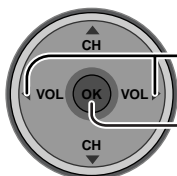


■ Channel (Canal)

1 Presione para seleccionar Channel.



2



Presione para seleccionar el canal.

Presione para agregar un canal.

Para borrar un canal, presione de nuevo mientras se muestra el número del canal.

• Repita el paso 2 para seleccionar un máximo de 16 canales favoritos.

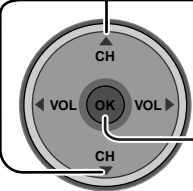
Captions (Subtítulos)

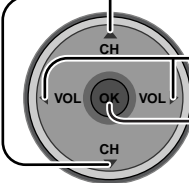
Para introducir etiquetas manuales y prefijadas en las emisoras deseadas. También para introducir etiquetas de entrada en las entradas de video.

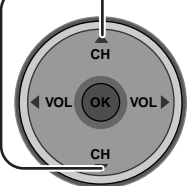
■ Preset Labels (Etiquetas prefijadas)

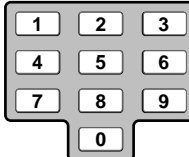
Para introducir números de canales para emisoras de TV populares.

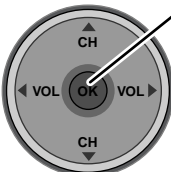
Captions		
Preset Labels	RF Input	Antenna (A)
Manual Labels	ABC	
Input Labels	CBS	
	FOX	
	NBC	
	PBS	
	CNN	
	ESPN	
	HBO	

1  Presione para seleccionar Preset Labels.
Presione para introducir el campo de submenús.

2  Presione para seleccionar RF Input.
Presione para seleccionar Antenna (A) (Antena A) o Antenna (B) (Antena B).
Presione para introducir su elección.

3  Presione para seleccionar los subtítulos prefijados deseados.

4  Seleccione el canal (consulte su guía de TV local).

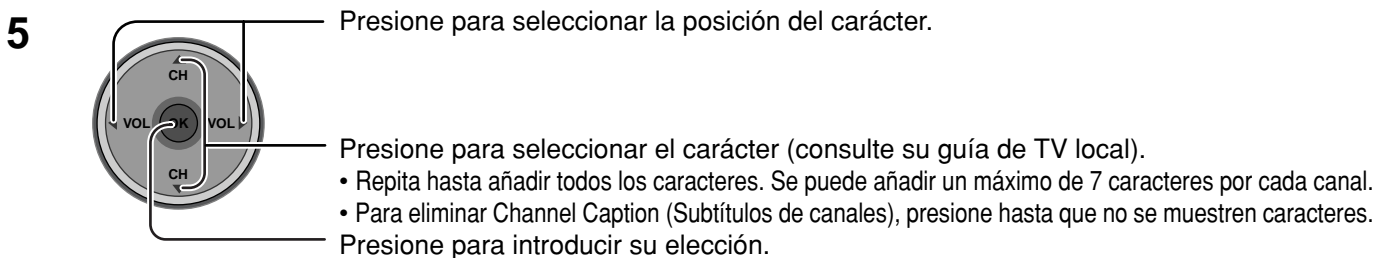
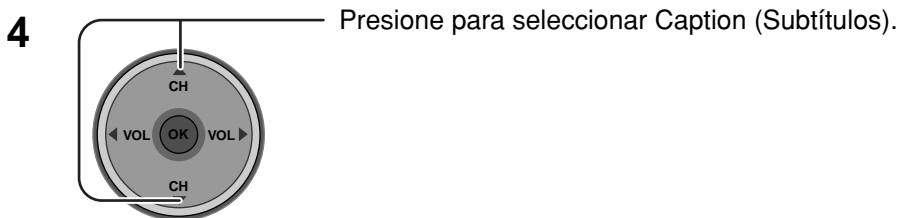
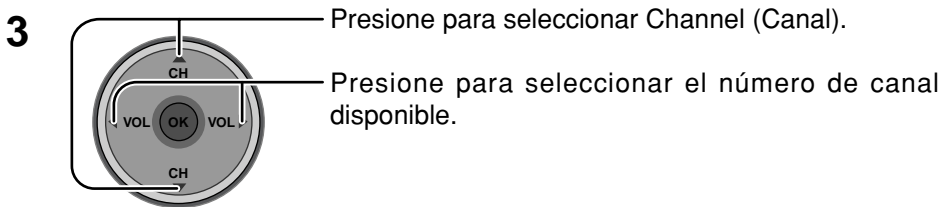
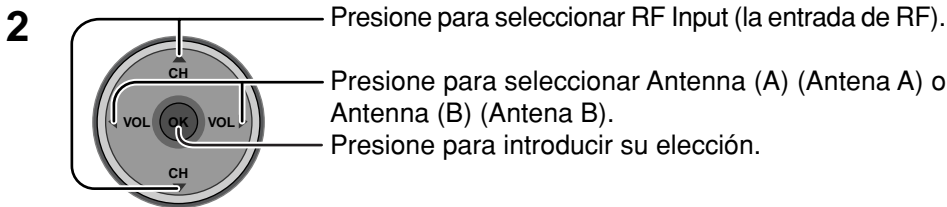
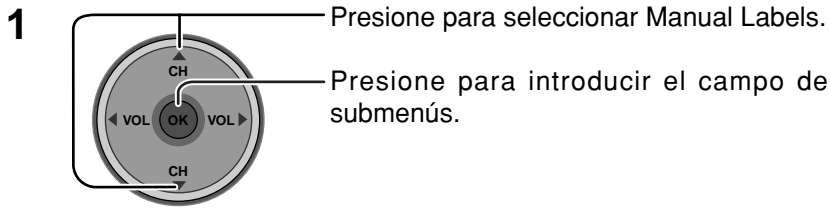
5  Presione para introducir su elección.
Para eliminar un número de canal, mientras se encuentra resaltado, presione repetidamente ◀ hasta eliminar todos los números, y luego presione **OK**.

Nota:
Sólo se pueden seleccionar entradas con señales.

Navegación por menús

Manual Labels (Etiquetas manuales)

Para introducir números y subtítulos manualmente.

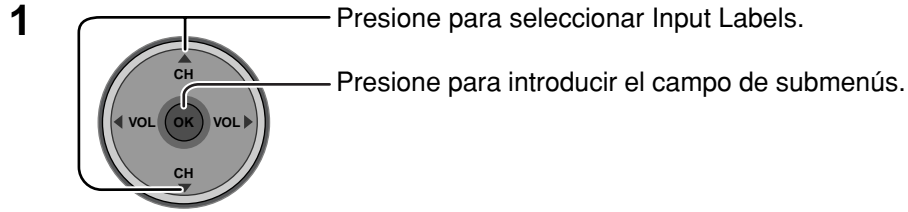


Captions		
Preset Labels	RF Input	Antenna (A)
Manual Labels	Channel	A: 2
Input Labels	Caption	

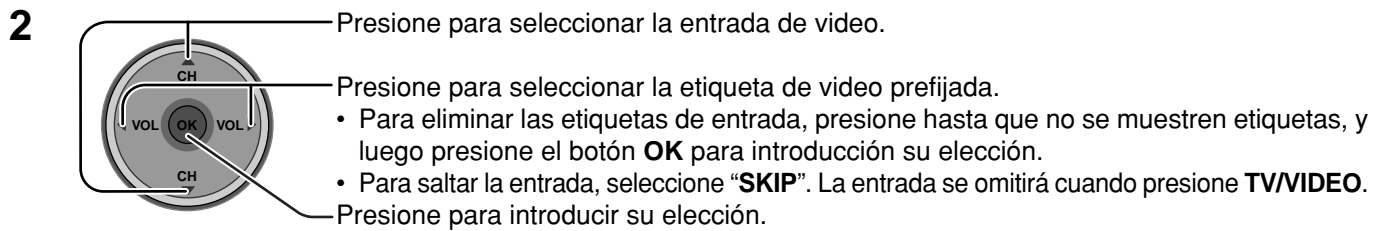
Nota: Sólo se pueden seleccionar entradas con señales.

■ Input Labels (Etiquetas de entrada)

Para etiquetar las conexiones de entrada de video para la visualización en pantalla.



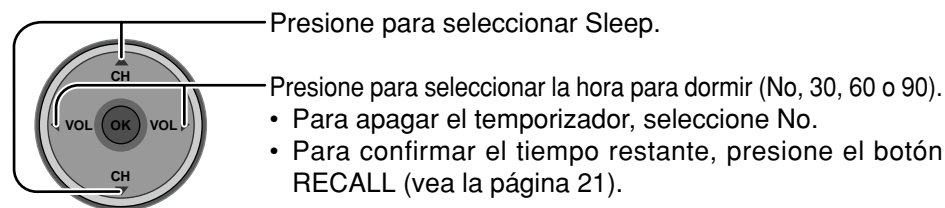
Captions	
Preset Labels	Component 1
Manual Labels	Component 2
Input Labels	HDMI
	Video 1
	Video 2
	Video 3
	PC



Timer (Temporizador)

Ponga la hora el Clock Set (Puesta en hora) (vea la página 35) antes de poner el Timer (Temporizador).

Sleep (Dormir)

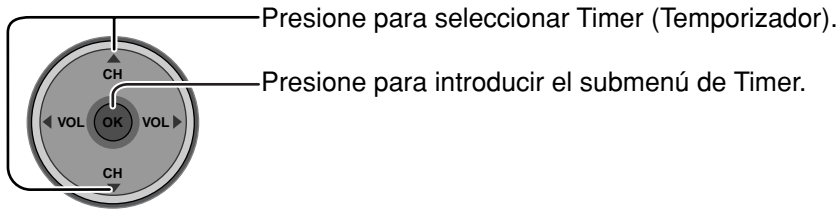


Timer	
Sleep	No
Timer	
Clock Set	...:.. --
Day Set	...

Navegación por menús

Timer (Temporizador)

Ponga el temporizador para encender y apagar el televisor a las horas seleccionadas y en el día seleccionado.

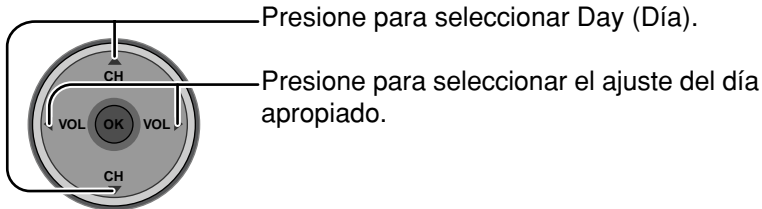


Timer	
Sleep	No
Timer	
Clock Set	--:-- --
Day Set	---

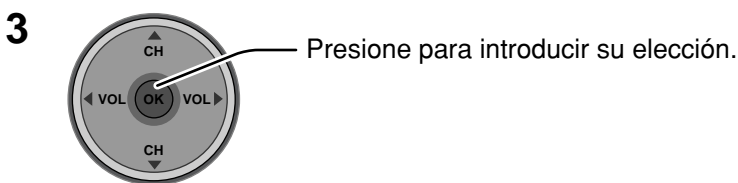
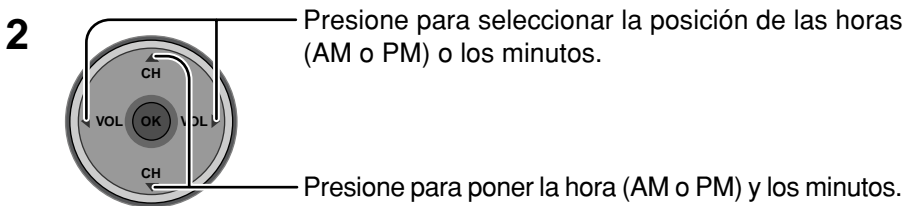
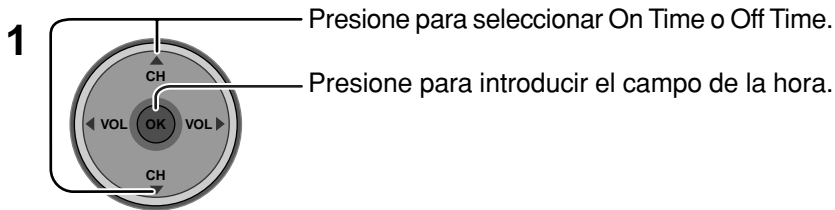


Timer	
Day	MON-FRI
On Time	7:10 AM
Off Time	8:10 PM
Set	Yes

■ Day (Día)



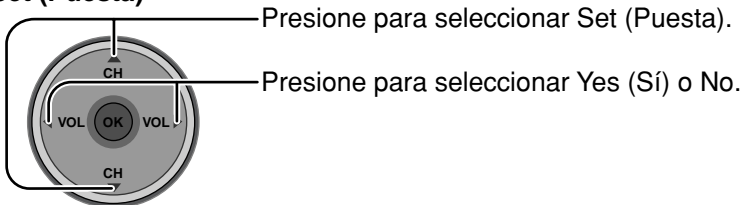
■ On Time (Hora de encendido) / Off Time (Hora de apagado)



Notas:

- El televisor se apaga automáticamente después de pasar 90 minutos cuando se enciende mediante el temporizador. Esto se cancelará si se selecciona Off Time (Hora de apagado) o se presiona una tecla.
- Cuando el suministro eléctrico del televisor se altere debido a un corte en el suministro o a un problema similar, el temporizador de apagado se desactivará y el televisor se pondrá en el modo de espera incluso después de restablecerse el suministro eléctrico.

■ Set (Puesta)



Para volver a la pantalla anterior

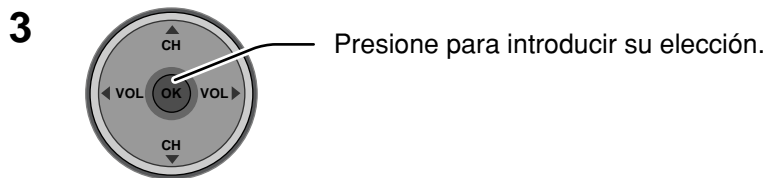
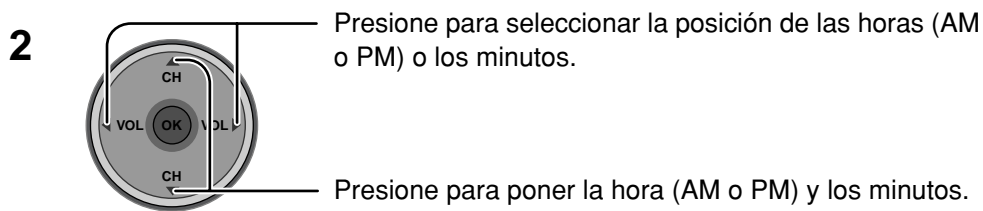
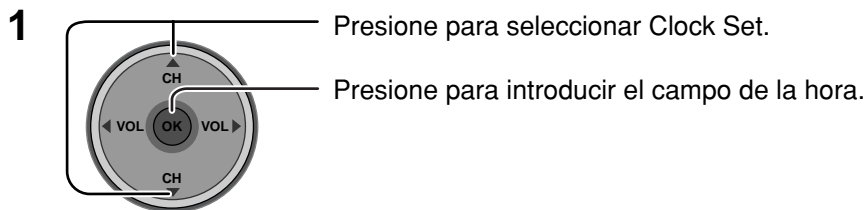


Presione para volver.

Para activar el temporizador

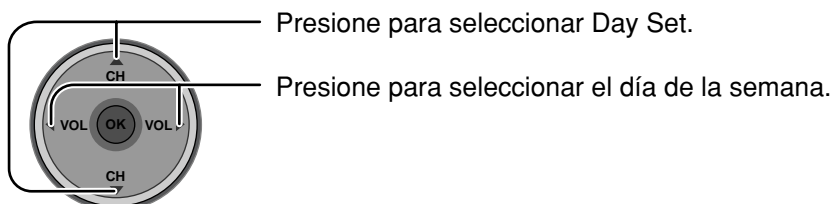
Seleccione el canal y apague el televisor.

Clock Set (Puesta del reloj)

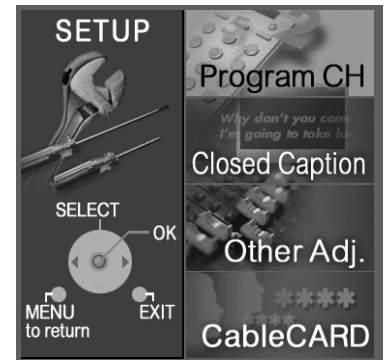
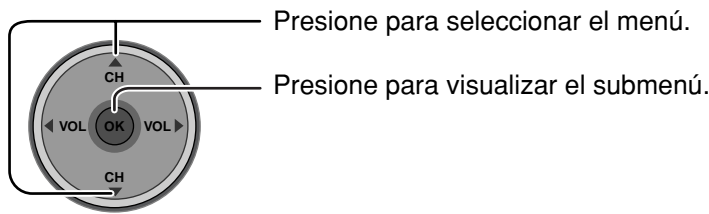


Day Set (Puesta del día)

Ponga el día de la semana.



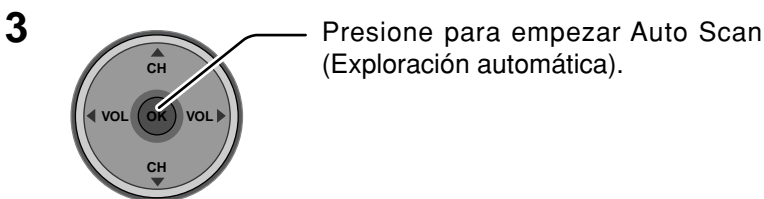
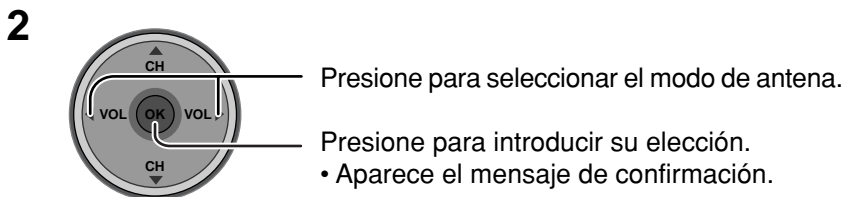
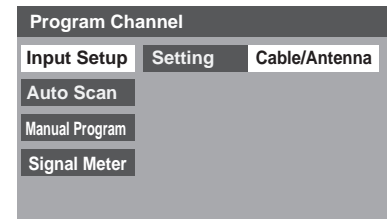
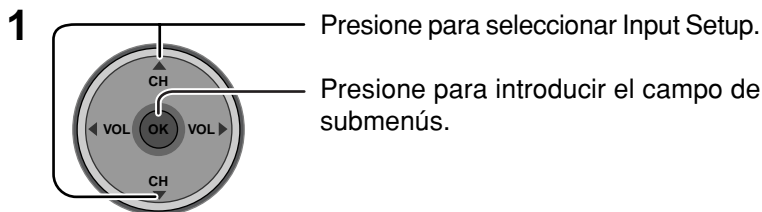
Setup (Programación)



Program CH (Canal de programa)

■ Input Setup (Programación de entrada)

Le permite especificar el modo de antena [Cable only (Cable solamente), Cable/Antenna (Cable/Antena) o Antenna only (Antena solamente)].

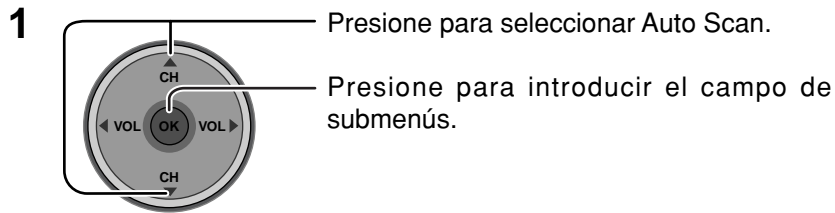


Notas:

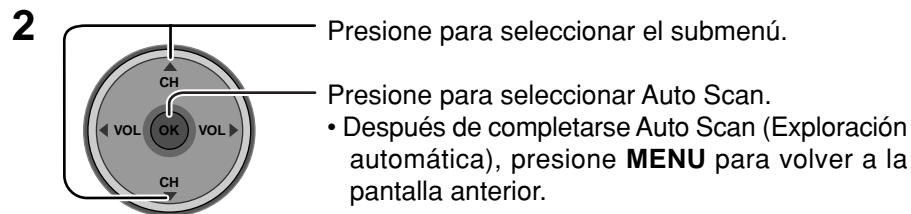
- Auto Scan (Exploración automática) es necesario para cuando usted selecciona la señal de entrada por primera vez o siempre que usted cambia la configuración de la antena.
- Si no está insertado el CableCARD, Auto Scan (Exploración automática) realizará Scan All (Explorar todo).
- Cuando esté insertado el CableCARD y se seleccione Cable only (Cable solamente), Auto Scan (Exploración automática) se omitirá.
- Cuando esté insertado el CableCARD y se seleccione Cable/Antenna (Cable/Antena), se realizará Antenna (B) Analog & Digital Auto Scan [Exploración automática analógica y digital para antena (B)].
- Para poder seleccionar manualmente Antenna B (Antena B) desde el control remoto, tendrá que realizar en primer lugar Auto Scan (Exploración automática).

Auto Scan (Exploración automática)

Explora automáticamente todos los canales disponibles Antenna (A) Analog [Antena (A) analógica], Antenna (A) Analog & Digital [Antena (A) analógica y digital], Antenna (B) Analog [Antena (B) analógica] y Antenna (B) Analog & Digital [Antena (B) analógica y digital].

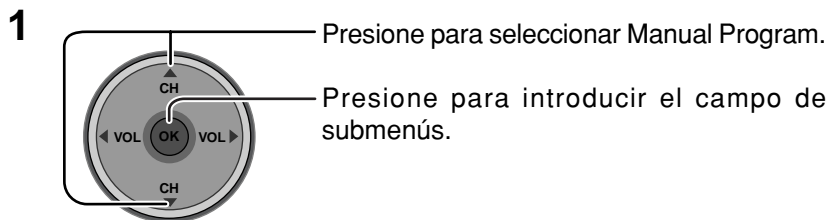


Program Channel	
Input Setup	Scan All
Auto Scan	Antenna (A) Analog
Manual Program	Antenna (A) Analog & Digital
Signal Meter	Antenna (B) Analog
	Antenna (B) Analog & Digital

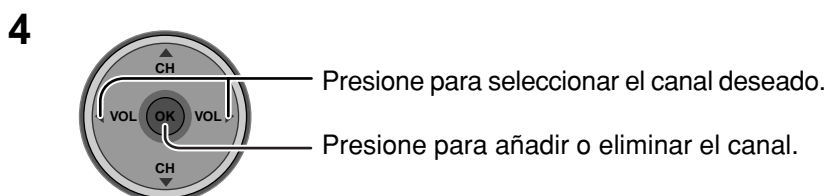
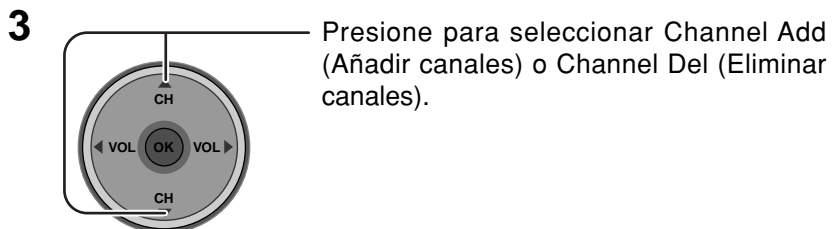
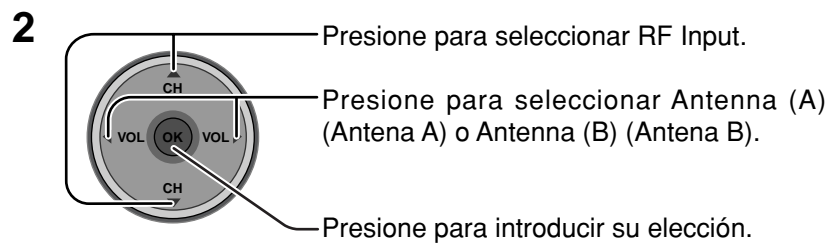


Manual Program (Programa manual)

Para añadir o borrar manualmente canales de las listas de canales (A/B).



Program Channel		
Input Setup	RF Input	Antenna (A)
Auto Scan	Channel Add	A: 1
Manual Program	Channel Del	A: 2
Signal Meter		

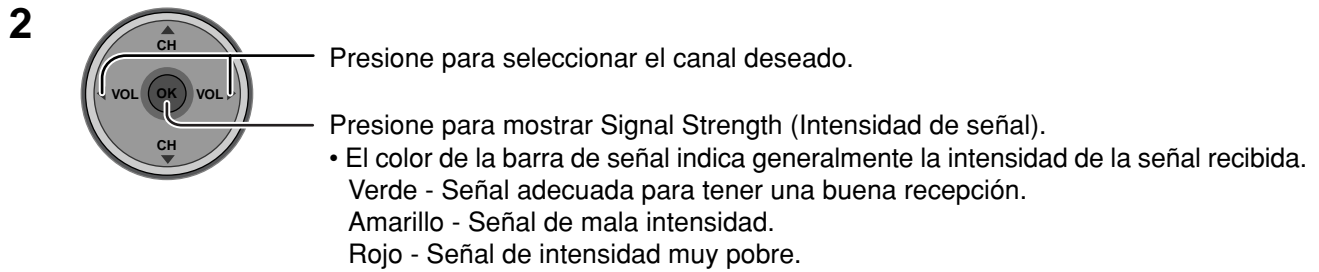
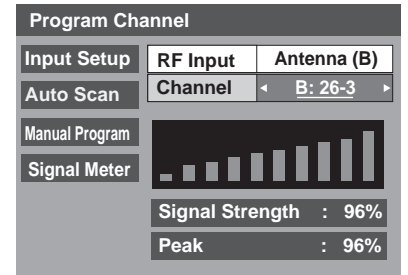
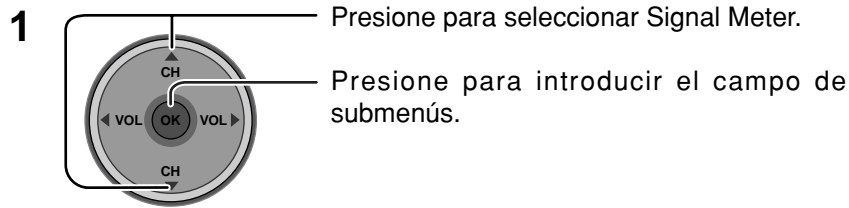


Navegación por menús

■ Signal Meter (Medidor de señal)

(Para canales digitales solamente)

Muestra la intensidad de la señal del canal digital ATSC en Antenna (A) (Antena A) o Antenna (B) (Antena B).

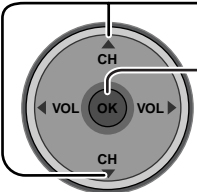


Closed Caption (Subtítulos ocultos)

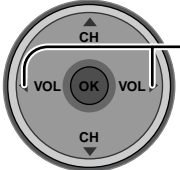
El televisor tiene incorporado un decodificador capaz de proveer información visual correspondiente al sonido. El programa deberá tener Closed Captioning (Subtítulos ocultos) (CC) para que el televisor pueda mostrarlo.

■ CC Mode (Modo CC)

Activa Closed Captioning (Subtítulos ocultos) cuando se presiona el botón MUTE.

- 

Presione para seleccionar CC Mode.

Presione para introducir el campo de submenús.
- 

Presione para seleccionar la opción.

 - Off (Apagado)
 - On : Para mostrar Closed Caption (Subtítulos ocultos)
 - On Mute : Para mostrar Closed Caption (Subtítulos ocultos) cuando se silencia el sonido.

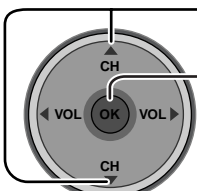
Closed Caption		
CC Mode	Setting	Off
Analog		
Digital		

Notas:

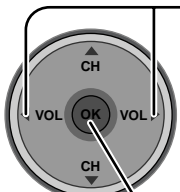
- Los subtítulos ocultos no se muestran cuando usted utiliza la conexión HDMI.
- Cuando se muestre o grabe un programa de canal analógico en un equipo conectado, seleccione la opción On/Off (Encendido/Apagado) de títulos ocultos en el equipo conectado. CC Mode del televisor no tiene ningún efecto con la señal de salida del canal analógico.
- Cuando se muestra o se graba un programa de canal digital en un equipo conectado, ponga CC Mode del televisor en Off (Apagado) y seleccione la opción On/Off (Encendido/Apagado) en el equipo conectado. Los subtítulos ocultos digitales se superpondrán si la opción de los subtítulos ocultos es On (encendido) en el televisor y en el equipo conectado.

■ Analog (Analógico)

Le permite elegir el servicio de subtítulos ocultos de una emisión Analógica.

- 

Presione para seleccionar Analog.

Presione para introducir el campo de submenús.
- 

Presione para seleccionar la opción.

 - CC1 : Para la información relacionada con video que puede mostrarse (hasta 4 líneas de texto en la pantalla, donde no interfiere con las partes importantes de la imagen). El texto puede aparecer en cualquier idioma.
 - CC2/CC3/CC4 : Otros modos utilizados para la información relacionada con video.
 - T1 : Borra una parte grande de la imagen de la pantalla del televisor, y muestra guías de programas o cualquier otra información actualmente transmitida.
 - T2/T3/T4 : Otros modos que muestran información y borran una parte grande de la imagen de la pantalla del televisor.

Presione para introducir su elección.

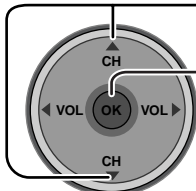
Closed Caption		
CC Mode	Service	CC1
Analog		
Digital		

Navegación por menús

■ Digital

El menú Subtítulos cerrados digitales le permite configurar la forma en que va a ver los subtítulos digitales.

1



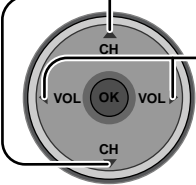
Presione para seleccionar Digital.

Presione para introducir el campo de submenús.

Closed Caption		
CC Mode	Service	Primary
Analog	Font	Automatic
Digital	Size	Automatic
	Style	Automatic
	Colors	
	Reset	

Sample CC Text

2

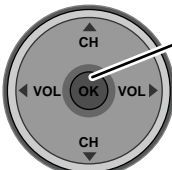


Presione para seleccionar el submenú.

Presione para seleccionar la opción.

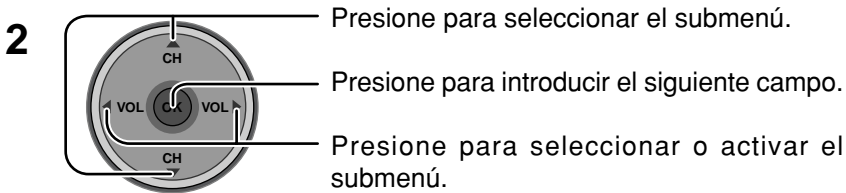
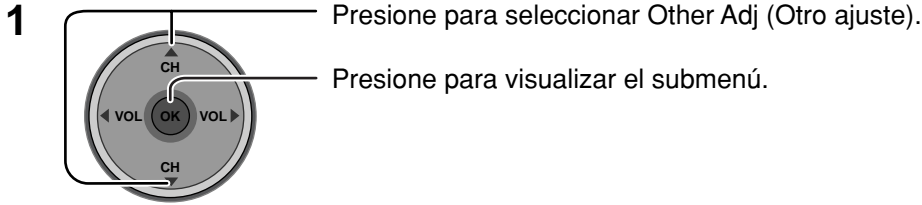
- Service (Servicio) : Primary (Primario), Secondary (Secundario), Service 3 (Servicio3), Service 4 (Servicio 4), Service 5 (Servicio 5), Service 6 (Servicio 6)
- Font (Fuente) : Automatic (Automática), Default (Predeterminada), Mono-serif, Pro-serif, Mono, Prop, Casual, Cursive (Cursiva), Small Caps (Mayúsculas pequeñas)
- Size (Tamaño) : Automatic (Automático), Normal, Small (Pequeño), Large (Grande)
- Style : Automatic (Automático), None (Ninguno), Raised (Elevado), Depressed (Bajado), Uniform (Uniforme), Drop Shadow (Filo de sombra)
- Colors (Colores) : Foreground El color de la fuente [Automatic (Automático), (Primer plano) Black (Negro), White (Blanco), Red (Rojo), Green (Verde), Blue (Azul), Yellow (Amarillo), Magenta, Cyan (Cian)]
- Fore Opacity La opacidad de la caja de texto [Automatic (Opacidad de primer plano) (Automático), Transparent (Transparente), Translucent (Translúcido), Solid (Sólido), Flashing (Parpadeante)]
- Background El color de la caja de texto [Automatic (Fondo) (Automático), Black (Negro), White (Blanco), Red (Rojo), Green (Verde), Blue (Azul), Yellow (Amarillo), Magenta, Cyan (Cian)]
- Back Opacity La opacidad de la caja de texto [Automatic (Opacidad de fondo) (Automático), Transparent (Transparente), Translucent (Translúcido), Solid (Sólido), Flashing (Parpadeante)]
- Outline El contorno del filo de sombra (si se selecciona en estilo) [Automatic (Automático), Black (Negro), White (Blanco), Red (Rojo), Green (Verde), Blue (Azul), Yellow (Amarillo), Magenta, Cyan (Cian)]
- Reset (Reposición) : Repone los ajustes CC digitales.

3



Presione para introducir su elección.

Other Adjust (Otro ajuste)



Other Adjust	
Auto Power On	Off
Side Bar	Bright
Power Save	Off

■ Auto Power On (Set u Off) [Autoencendido (Encendido o Apagado)]

Seleccione Set (Encendido) para encender el televisor al mismo tiempo que el receptor de cable u otros componentes conectados.

■ Side Bar (Off, Dark, Mid, Bright) [Barra lateral (Apagada, Oscura, Media, Brillante)]

Mostrar una imagen en el modo 4:3 durante mucho tiempo puede crear una imagen secundaria. Cambie el brillo de las barras laterales para evitar la imagen secundaria.

Notas:

- Tener la barra lateral en Bright (Brillante) durante mucho tiempo puede causar imagen secundaria.
- La barra lateral puede parpadear (alternando en negro/blanco) dependiendo de la imagen. En tal caso, ponga Pic Mode (Modo de imagen) en Cinema (Cine) (vea la página 26).

■ Power Save (Off u On) [Ahorro de energía (Apagado o Encendido)]

Suprime el nivel luminoso del televisor para reducir el consumo de energía.

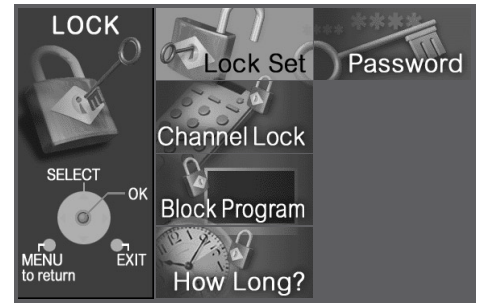
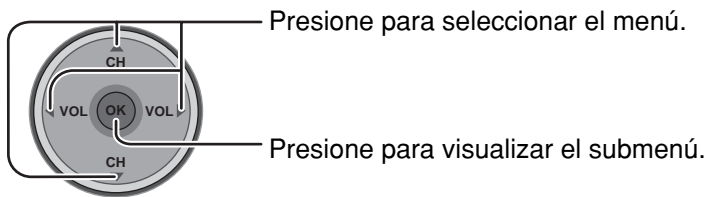
CableCARD (Tarjeta de cable)

Este menú provee información cuando se inserta un CableCARD en la ranura CABLE CARD (vea la página 14).

Notas:

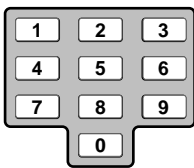
- Si no está insertado el CableCARD y usted accede a la información CableCARD (Tarjeta de cable) aparece el mensaje "Cable Module Not present" (No está introducido el módulo de cable).
- Para recibir los programas ofrecidos por su compañía de cable, puede que tenga que suscribirse a esos servicios. Póngase en contacto con su compañía de televisión por cable para conocer la disponibilidad del CableCARD. El CableCARD se necesita para recibir los servicios digitales con recargo (donde se encuentren disponibles) a través de la entrada de cable. También puede pedir por adelantado programas de pago por visión.

Lock (Bloqueo)

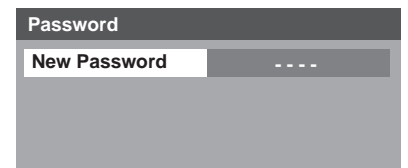


Password (Contraseña)

Ponga una contraseña de 4 dígitos para entrar en el menú Lock (Bloqueo).



Introduzca una contraseña de 4 dígitos.

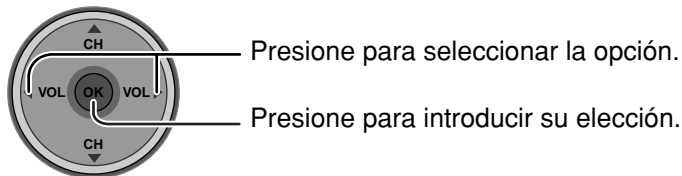


Notas:

- Utilice una clave que sea fácil de recordar, anótela y guárdela en un lugar seguro.
- Si selecciona Always (Siempre) para How Long? (¿Cuánto tiempo?) (vea la página 45) y olvida su código secreto, usted deberá acudir a un técnico cualificado para que cancele el ajuste de bloqueo de su televisor.

Lock Set (Ajuste de bloqueo)

Seleccione Lock Set (Ajuste de bloqueo) para impedir videojuegos, cintas de videocasetera, canales y modos de video.



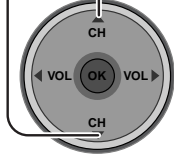
- Off (Apagado) : Apaga las funciones de Lock Set (Ajuste de bloqueo).
- Lock All (Bloqueo completo) : Todos los canales quedan bloqueados independientemente del nivel de clasificación.
- Game Lock (Bloqueo de juegos) : Bloquea los canales 3 y 4 y las entradas de video.
- Channel Lock (Bloqueo de canales) : Bloquea canales analógicos y digitales específicos. Para ver uno cualquiera de los canales bloqueados se necesita introducir una contraseña.

Channel Lock (Bloqueo de canales)

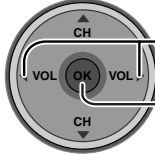
■ RF Input (Entrada de RF)

Seleccione Antenna (A) (Antena A) o Antenna (B) (Antena B).

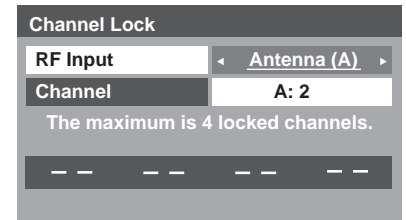
1 Presione para seleccionar RF Input .



2 Presione para seleccionar la opción.



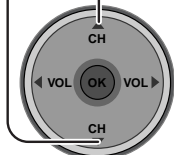
Presione para introducir su elección.



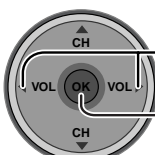
■ Channel (Canal)

Seleccione hasta cuatro (4) canales para bloquearlos. Estos canales se bloquearán independientemente de la clasificación del programa.

1 Presione para seleccionar Channel.



2 Presione para seleccionar la opción.



Presione para introducir su elección.

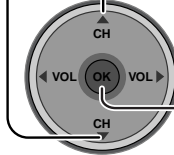
• Para borrar el número del canal de la lista, seleccione el número del canal y presione **OK**.

Block Program (Bloquear programa)

Este televisor incorpora la tecnología V-CHIP para bloquear películas o programas de televisión según la categoría de la clasificación. Hay dos (2) categorías que aconsejan sobre el contenido de los programas: MPAA (Motion Picture Association of America) y TV Parental Guidelines Ratings. Estas dos categorías se utilizan como guía para bloquear los programas.

• El modo predeterminado para la categoría de bloqueo es el de bloqueo desactivado.

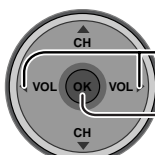
1 Presione para seleccionar MPAA u U.S.TV.



MPAA : Para clasificaciones de películas en los EE.UU.
U.S. TV: Para clasificaciones de programas de TV en los EE.UU.

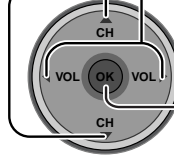
Presione para introducir el campo Mode (Modo).

2 Presione para seleccionar On (Encendido) u Off (Apagado).



Presione para introducir su elección.

3 Presione para resaltar el nivel de clasificación deseado.



Presione para cambiar el límite de clasificación a "Blocked" (Bloqueado) o "Viewable" (Se puede ver).

Block Program		
MPAA	Mode	Off
U.S.TV	NR	Viewable
	G	Viewable
	PG	Viewable
	PG-13	Viewable
	R	Viewable
	NC-17	Viewable
	X	Viewable

Notas:

- La clasificación NR es independiente de otras clasificaciones.
- Bloqueando un nivel de clasificación basado en la edad, la clasificación NR y cualquier otra clasificación más restrictiva también quedarán bloqueadas.

Navegación por menús

GRÁFICA DE CALIFICACIONES DE PROGRAMAS DE TV PARA LOS EEUU

NR	Sin restricción. Consulte Precauciones del cliente abajo.
TV-Y	Para todos los niños. Los temas y elementos de este programa han sido diseñados específicamente para el público joven, incluyendo niños de 2 a 6 años.
TV-Y7	Para niños mayores. Los temas y elementos de este programa pueden incluir violencia física moderada, o pueden asustar a los niños menores de 7 años.
TV-G	Para el público en general. Contiene un poco de violencia o ninguna y no se emplean palabras malsonantes, y en los diálogos y en las situaciones no se toca el tema del sexo o éste se menciona sólo un poco.
TV-PG	Se sugiere la supervisión de los padres. El programa puede tener conversaciones groseras infrecuentes, violencia limitada y diálogos y situaciones con sexo provocativo.
TV-14	Se recomienda encarecidamente la supervisión de los padres. Este programa puede contener temas sofisticados, contenido sexual, lenguaje fuerte y violencia intensa.
TV-MA	Para un público adulto solamente. Este programa puede contener temas para adultos, lenguaje profano, violencia vívida y un contenido sexual explícito.
FV	VIOLENCIA EN PROGRAMAS DE FANTASÍA/DIBUJOS ANIMADOS
V	VIOLENCIA
S	SEXO
L	LENGUAJE OFENSIVO
D	DIÁLOGO CON CONTENIDO SEXUAL

GRÁFICA DE CALIFICACIONES DE PELÍCULAS PARA LOS EEUU

NR	CONTIENE PROGRAMAS SIN RESTRICCIONES Y PROGRAMAS NA (NO APLICABLES). Las películas no tienen restricciones o las restricciones no son aplicables.
G	PÚBLICO EN GENERAL. Se admiten a todos los públicos.
PG	SE SUGIERE LA SUPERVISIÓN DE LOS PADRES. Algún material puede no ser apropiado para los niños.
PG-13	SE RECOMIENDA ENCARECIDAMENTE LA SUPERVISIÓN DE LOS PADRES. Algún material puede no ser apropiado para los niños menores de 13 años.
R	RESTRINGIDAS. Los jóvenes menores de 17 años y los niños necesitan estar acompañados de sus padres o una persona adulta que los supervise.
NC-17	NO SE ADMITE AL PÚBLICO MENOR DE 17 AÑOS.
X	ADULTOS SOLAMENTE.

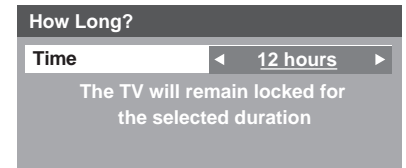
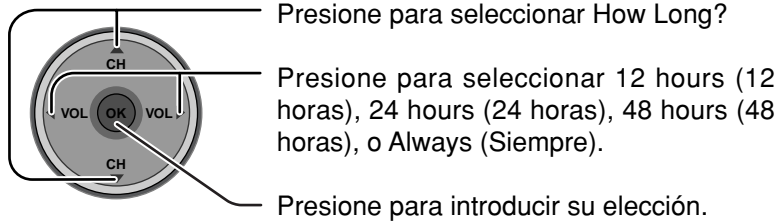
Precauciones del cliente

El sistema V-Chip que se utiliza en este aparato es capaz de bloquear los programas "NR" (no clasificados, no aplicables y ninguno) de acuerdo con las normas de la FCC indicadas en la Sección 15.120(e)(2). Si se elige la opción de bloqueo de programas "NR", "podrán producirse resultados inesperados y posiblemente confusos, y usted tal vez no pueda recibir anuncios de emergencia o ninguno de los tipos de programación siguientes".

- Anuncios de emergencia (mensajes EAS, avisos del tiempo y otros)
- Programas locales • Noticias • Política • Anuncios de servicios públicos • Religión • Deportes
- Tiempo

How Long? (¿Cuánto tiempo?)

Los ajustes de bloqueo permanecen durante el tiempo seleccionado.



Nota:

Cuando seleccione Always (Siempre) y olvide su código secreto, acuda a un técnico cualificado para que cancele el ajuste de bloqueo.

Mensajes de bloqueo

En la pantalla se muestran varios mensajes de bloqueo dependiendo del tipo de bloqueo que usted seleccione en el menú Lock (Bloqueo).

Nota:

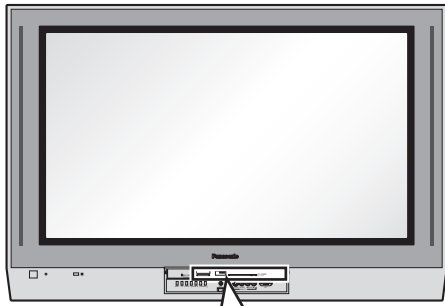
Al introducir una contraseña se anulará la condición de bloqueo. Sin embargo, las clasificaciones seleccionadas se mantendrán.

Mensaje	Causa posible
Video Inputs Locked.	Se selecciona Game Lock (Bloqueo de juegos).
Channel Locked. Press OK to enter password.	Se selecciona Channel Lock (Bloqueo de canales).
Rating Limit Exceeded. Press OK to enter password.	Se ha sobrepasado el nivel de la clasificación.

Photo Viewer

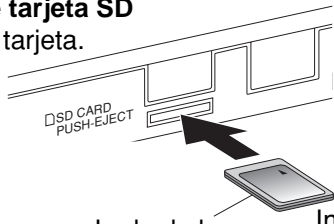
Photo Viewer le permite mostrar imágenes JPEG grabadas mediante una cámara digital en una tarjeta SD o en otro tipo de tarjeta de memoria cuando ésta se introduce en la ranura correcta.

Introducción y extracción de una tarjeta



Ranura de tarjeta SD

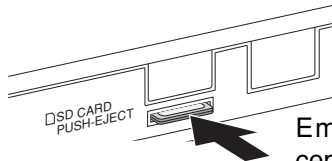
Introduzca la tarjeta.



Retire la tarjeta.

Lado de la etiqueta hacia arriba

Introdúzcala hasta que haga un ruido seco.



Empuje sobre el centro de la tarjeta.

Ranura de tarjeta PCMCIA

Apague el televisor antes de introducir o retirar una tarjeta PCMCIA.

Introduzca la tarjeta.



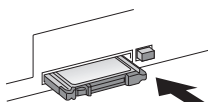
Sujetando ambos bordes, introduzca firmemente la tarjeta hasta el fondo.

Lado del terminal hacia el fondo.

Alinee el sentido de la flecha.

Lado de la etiqueta hacia arriba

Retire la tarjeta.



Presione el botón de expulsión.

Si el botón de expulsión no sale al exterior

Empuje de nuevo la tarjeta PCMCIA hacia adentro y luego presione de nuevo el botón de expulsión.

Nota:

Si se utiliza el adaptador de tarjeta PC, desmonte junto con el adaptador.

Tarjetas compatibles y tamaño de tarjetas

Ranura de tarjeta SD

- SD Card (512MB)
- Multi Media Card (128MB)
- miniSD Card* (128MB)

Ranura de tarjeta PCMCIA

- SD Card (512MB)
- Multi Media Card (128MB)
- Smart Media (128MB)
- xD Picture Card(128MB)
- Memory Stick (1GB)
- Memory Stick Pro (1GB)
- miniSD Card* (128MB)
- Compact Flash (1GB)
- Memory Stick (128MB)
- Flash ATA (128 MB)

Las tarjetas necesitan el adaptador de tarjeta PCMCIA. (Algún adaptador de tarjeta PC no será compatible.)

* La mini SD Card (tarjeta miniSD) necesita el adaptador miniSD.

- Photo Viewer no es compatible con los discos duros tipo tarjeta (discos duros Micro Drive, Mobile, etc.).
- Con este televisor no se suministran tarjetas de memoria.
- Cuando estén introducidas una tarjeta SD y una tarjeta PCMCIA en las ranuras, la tarjeta SD tendrá prioridad.

Protección de datos de tarjeta

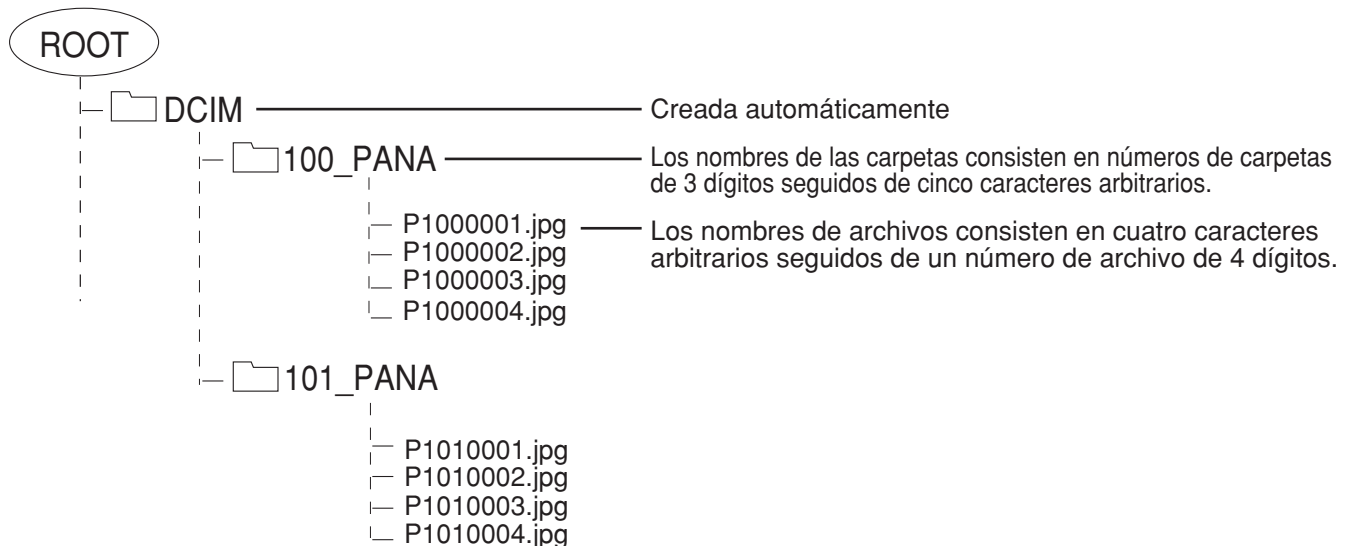
- No retire la tarjeta mientras Photo Viewer está accediendo a la información (cuando el icono de la tarjeta está parpadeando). Esto podrá dañar la tarjeta de memoria o la propia unidad.
- Antes de introducir o extraer la tarjeta PCMCIA, asegúrese de que el televisor esté apagado. De lo contrario podría dañarse la unidad.
- No toque los terminales de la parte posterior de la tarjeta SD/tarjeta PCMCIA.
- Introduzca siempre la tarjeta en el sentido correcto. De lo contrario podrá dañarse la tarjeta y esta unidad.
- No someta la tarjeta a una presión excesiva ni a golpes fuertes.
- La interferencia eléctrica, las descargas electrostáticas y las fallas de funcionamiento de la unidad o la tarjeta pueden causar pérdida de datos o daños en la tarjeta.
- Deberán hacerse copias de seguridad periódicas de los datos guardados a modo de protección contra la corrupción de los datos, la pérdida de datos o las fallas de funcionamiento del dispositivo. Tenga en cuenta que nuestra compañía no se hará responsable de ningún daño o pérdida de los datos guardados.
- **ADVERTENCIA: Al igual que todos los objetos pequeños, la tarjeta SD puede ser tragada por los niños pequeños. No deje que los niños manipulen la tarjeta SD. Guarde inmediatamente la tarjeta SD después de utilizarla.**

Carpetas y archivos

- Photo Viewer sólo puede mostrar imágenes fijas grabadas mediante una cámara digital en archivos JPEG estándar del formato DCF* y EXIF.
- *DCF (Norma de diseño para sistema de archivos de cámaras)
Norma unificada establecida por la Asociación de las Industrias de la Tecnología de la Información y de la Electrónica del Japón (JEITA).
- Las tarjetas de memoria deberán estar formateadas con FAT12 o FAT16 para poder ver su contenido en un televisor. Si las tarjetas no están formateadas puede haber incompatibilidad con ciertos adaptadores de tarjetas de memoria. Si pasa esto, vuelva a formatear la tarjeta en su cámara digital.
Al reformatear la tarjeta se borrarán las imágenes guardadas en ella. Consulte el manual de su cámara para tener más información.
- Máximo número de carpetas que puede mostrarse: **100**.
- Máximo número de archivos que puede mostrarse: **3.000**.
- **Resolución de imagen:** Compatible dentro de la gama 64 x 64 - 8192 x 8192 (submuestreo 4:2:2 o 4:2:0)
- Si la imagen se importa desde un PC, ésta deberá ser del formato EXIF (formato de archivo de imagen intercambiable) 2.0, 2.1, 2.2, además del formato DCF (norma de diseño para sistema de archivos de cámara).
- JPEG modificado utilizando un PC no se mostrará en el televisor.
- Photo Viewer no puede mostrar imágenes de Motion JPEG ni imágenes fijas que no sean del formato DCF (ej., TIFF, BMP).
- Si el archivo está parcialmente corrompido, ésta tal vez se muestre con una resolución más baja.
- El tamaño de la imagen mostrada depende el tamaño grabado.

Ejemplo de estructura de carpeta

Las imágenes JPEG en todas las carpetas se muestran en secuencia.



Notas:

- Los nombres de carpetas y archivos pueden cambiar dependiendo de la cámara digital.
- Utilice los caracteres "a-z", "A-Z", "0-9" y "_" para poner un nombre a un directorio o archivo. No utilice caracteres de dos bytes ni otros códigos especiales.

Modo de imagen miniatura

La pantalla de imagen miniatura es la pantalla de entrada inicial desde el menú principal.

- Cuando se introduzcan las tarjetas SD y PCMCIA, el televisor reproducirá la tarjeta SD. Para reproducir una tarjeta PCMCIA, seleccione "PC" en "Card" (Tarjeta) (vea la página 50) después de introducir la tarjeta PCMCIA.

- 1 Introduzca la tarjeta en la ranura apropiada (vea la página 46).



Presione para mostrar una pantalla de imagen miniatura.

0

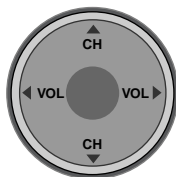
Número de imagen/Número total de imágenes

Nombre de archivo, la fecha y los píxeles (resolución) de la imagen

Notas:

- También puede introducir la pantalla de imagen miniatura desde la pantalla MENU (vea la página 24).
- Si hay muchos archivos o el tamaño del archivo es grande se puede tardar más tiempo en mostrar la imagen miniatura.
- La imagen desaparece de la pantalla mientras Photo Viewer accede a la información de la tarjeta. Después de acceder a las imágenes de la tarjeta se muestra una pantalla de imagen miniatura.

2




Seleccione la imagen miniatura.

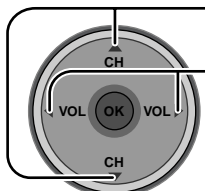
Presione para visualizar la imagen en el modo de visión de una sola imagen.

Setup Menu (Menú de programación) de Photo Viewer


Este menú le permite personalizar funciones del Setup Menu (Menú de programación) de Photo Viewer.

En el modo de imagen miniatura o en el modo de visión de una sola imagen (vea la página 48)

1  Presione para mostrar la pantalla Setup Menu (Menú de programación).

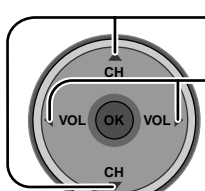
2  Presione para seleccionar el submenú.
Presione para ajustar o activar el submenú.

Setup Menu	Return
Slide Show	Start
Interval	5Sec
Sequence	Order
Repeat	OFF
Rotate	Left
Zoom	To Fit
Card	SD



Slide Show (Presentación de imágenes)

Seleccione las opciones de Interval (Intervalo), Sequence (Secuencia) y Repeat (Repetición) antes de empezar la presentación de imágenes.

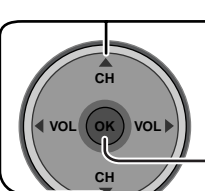
1  Presione para seleccionar el submenú.
Presione para ajustar o activar el submenú.

■ **Interval (Intervalo)**

Le permite cambiar la duración del tiempo que una imagen se muestra en la pantalla. (5Sec, 10Sec, 15Sec, 30Sec, 60Sec, 90Sec, 10Min).

■ **Sequence (Order o Random) [Secuencia (En orden o Aleatoria)]**

■ **Repeat (OFF u ON) [Repetición (APAGADO o ENCENDIDO)]**

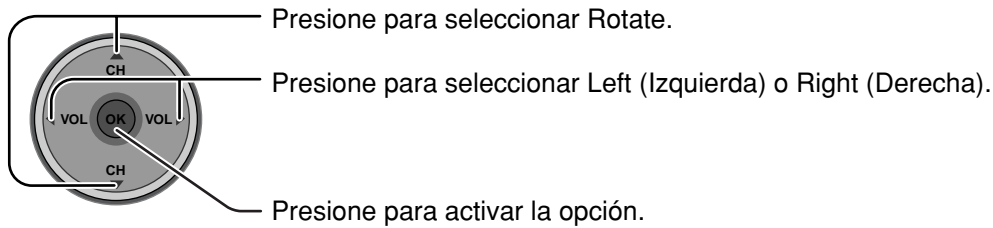
2  Presione para seleccionar Start (Inicio).
Presione para iniciar la presentación de imágenes.

- Presione de nuevo para detener la presentación de imágenes.
- Presione **ASPECT** para cambiar el aspecto de la imagen (vea la página 56).

Photo Viewer

Rotate (Girar)

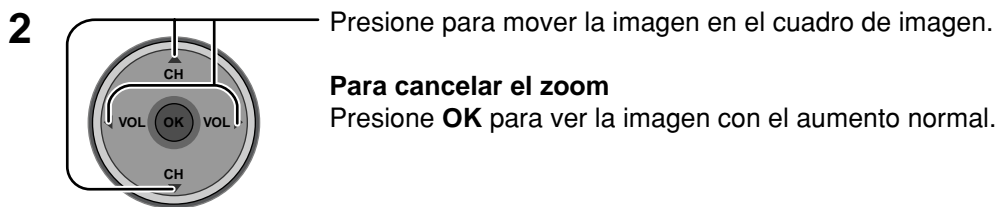
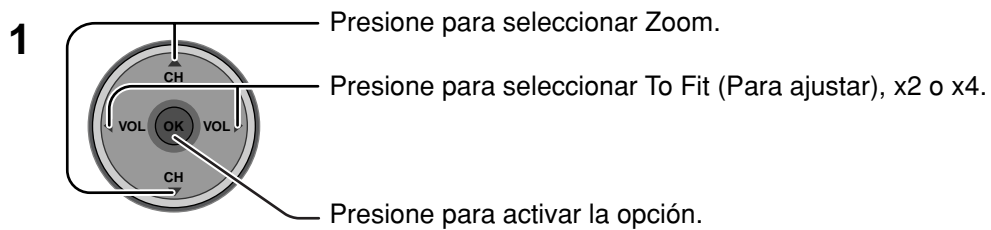
Le permite girar la imagen (vea la página 48).



Zoom

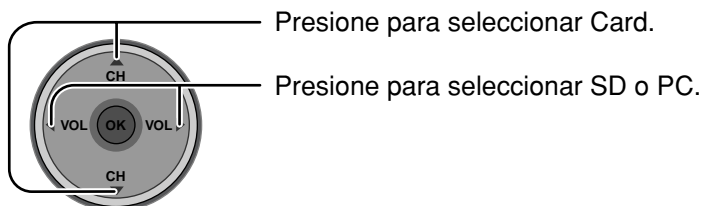
(En el modo de visión de una sola imagen)

Le permite seleccionar el aumento de la visión de una sola imagen.




Card (Tarjeta)

Seleccione SD o PC cuando ambas tarjetas estén introducidas en las ranuras.



Síntoma	Causa y remedio
No puede leer el contenido de la tarjeta.	<ul style="list-style-type: none"> • Formato incompatible. Debe ser formateado con FAT 12 o FAT 16. • La extensión no es "JPG". El Photo Viewer solo puede mostrar archivos JPEG con el estándar EXIF. • Las carpetas no cuentan con el estándar DCF.
La tarjeta no puede ser removida.	Presione la tarjeta hasta que quede insertada completamente y luego remuevala.
Calidad de imagen pobre.	Si la imagen principal no puede ser accesada (el archivo está parcialmente corrompido), el Photo Viewer accederá la previsualización. Confirme el formato de la imagen.
Puede tardar mucho tiempo en visualizarse.	Puede tardar mucho tiempo en visualizarse si hay muchos archivos o si el tamaño de archivo es grande.
La pantalla se pone negra.	Si el televisor no se utiliza durante más de 5 minutos mientras se muestra una pantalla de imagen miniatura o en el modo de visión de una sola imagen, la pantalla se pondrá negra para evitar la retención de imagen. Presione cualquier tecla para volver a mostrar una imagen normal.


■ Mensajes de error

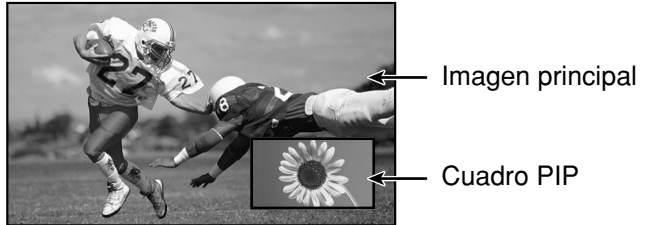
"Card is not inserted correctly."	Introduzca una tarjeta.
"This type of image is not supported."	El archivo JPEG está corrompido y no se puede decodificar.
"This type of format is not supported."	La tarjeta no está formateada con FAT12 o FAT16 o no pertenece al estándar DCF.
" 	No se puede mostrar la imagen miniatura ni la imagen principal.
"Photo Viewer cannot support over 3000 JPEG files."	Hay más de 3.000 archivos de imágenes.
"Photo Viewer cannot support over 8192 x 8192 pixels."	Exceso de resolución.
"This type of card is not supported."	Se ha introducido una tarjeta incompatible.
"Press any key to return."	La pantalla se ha puesto negra para evitar la retención de imagen. Presione cualquier tecla para volver a la imagen normal.

Operación de imagen en imagen (PIP)

Este televisor incluye una función de Picture in Picture (imagen en imagen) (PIP) gracias al empleo de dos sintonizadores. Esto le permite ver dos (2) emisiones en vivo al mismo tiempo sin tener que utilizar una fuente de vídeo externa como, por ejemplo, una videograbadora, un decodificador de televisión por cable, etc.



1  Presione para mostrar el cuadro PIP.



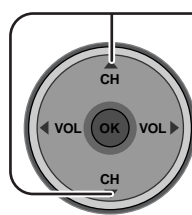
Notas:

- El audio sólo procede de la imagen principal.
- El cuadro PIP muestra la imagen del canal analógico de ANTENNA (A) solamente, y no puede mostrar la imagen del canal digital de ANTENNA (B).

2 En el cuadro PIP

 Seleccione el canal.

En la imagen principal

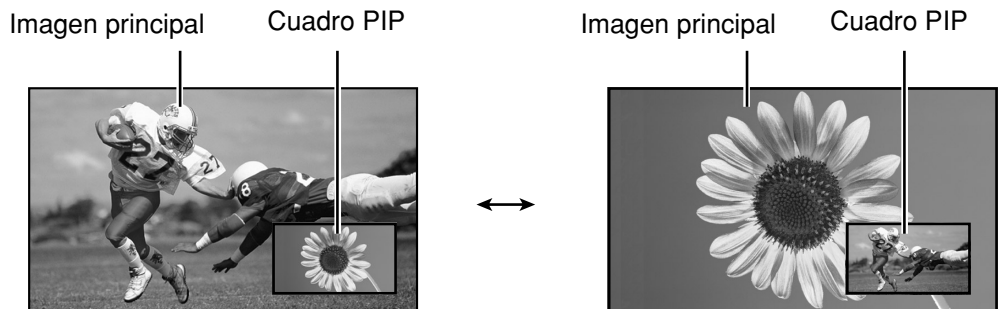
 Presione para seleccionar el canal.
• También puede utilizar los botones numerados.

Para cancelar la operación PIP





Para cambiar las imágenes





Para cambiar el tamaño del cuadro PIP

 : más pequeño

 : más grande

Operación de imagen en imagen (PIP)

Para congelar la imagen

Cuadro PIP



- Presione de nuevo para cancelar Freeze (Congelar).

Imagen principal

Mientras no se muestra el cuadro PIP

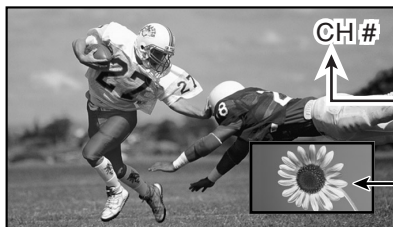


- Seleccione PIP o Split [vea la página 27, Freeze (Congelar)] cuando congele la imagen principal.

Notas:

- Freeze (Congelar) se cancela después de 3 minutos.
- Sólo MOVE (mover) (vea más abajo) se activa mientras está congelada la imagen principal.

Para seleccionar el modo de entrada del cuadro PIP.



Para buscar el canal

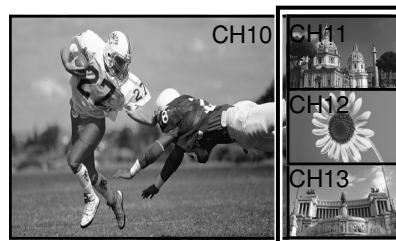
(Para canales analógicos solamente)

1

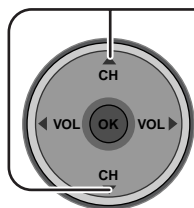


Presione para mostrar los cuadros de búsqueda.

- Presione de nuevo para cancelar Search (Búsqueda).



2



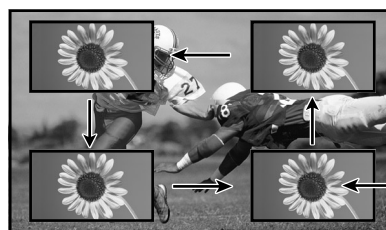
Presione para seleccionar el canal.

- También puede utilizar los botones numerados.

Para mover el cuadro PIP

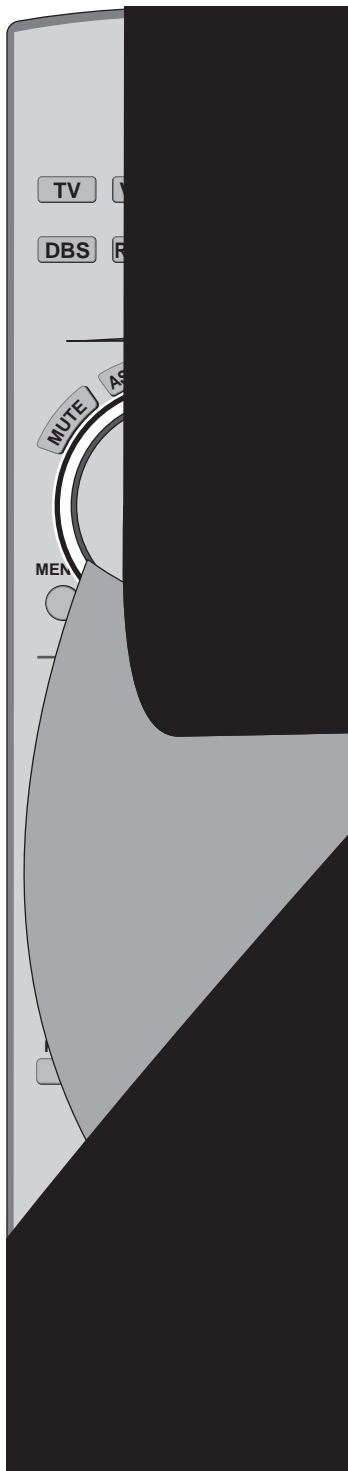



Presione para posicionar el cuadro PIP en una de las cuatro esquinas.

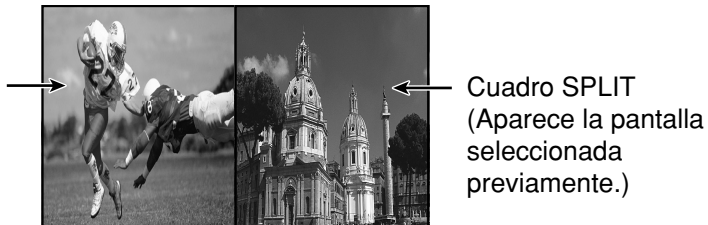


Operación SPLIT

Esta función le permite ver dos canales diferentes uno al lado del otro empleando, o sin emplear, una fuente de vídeo externa.



1  Presione para mostrar el cuadro SPLIT .



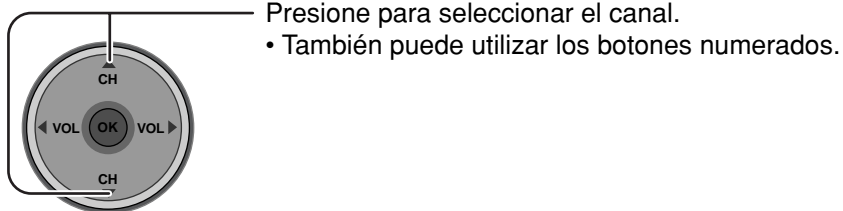
Notas:

- El audio sólo procede de la imagen principal.
- El cuadro SPLIT muestra la imagen del canal analógico de ANTENNA (A) solamente, y no puede mostrar la imagen del canal digital de ANTENNA (B).

2 En el cuadro SPLIT



En la imagen principal



Para cancelar la operación SPLIT

Imagen principal Cuadro SPLIT



Imagen principal Cuadro SPLIT



Para congelar la imagen

Cuadro SPLIT



- Presione de nuevo para cancelar Freeze (Congelar).

Imagen principal

Mientras no se muestra el cuadro SPLIT

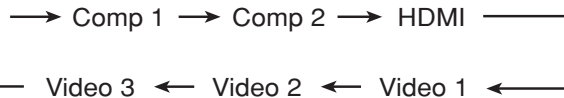
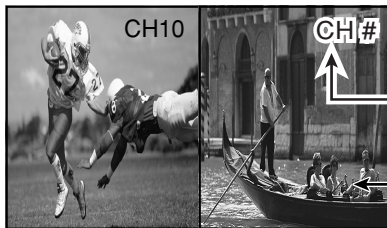


- Seleccione PIP o Split [vea la página 27, Freeze (Congelar)] cuando congele la imagen principal.

Nota:

- Freeze (Congelar) se cancela después de 3 minutos.

Para seleccionar el modo de entrada del cuadro SPLIT.



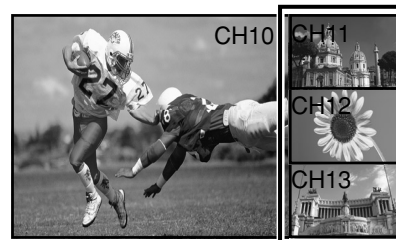
El modo de entrada cambia en el cuadro SPLIT.

Para buscar el canal

(Para canales analógicos solamente)

- Presione para mostrar los cuadros de búsqueda.

 - Presione de nuevo para cancelar Search (Búsqueda).



Los cuadros de búsqueda.

- Presione para seleccionar el canal.

 - También puede utilizar los botones numerados.

Notas:

- La imagen principal y el cuadro SPLIT se procesan en circuitos individuales, y pueden tener una calidad de imagen un poco diferente.
- No puede mostrar la misma imagen en la imagen principal y en el cuadro SPLIT al mismo tiempo.
- Mientras se muestra el cuadro congelado de la imagen principal, usted no podrá seleccionar ni buscar el canal, cambiar las imágenes o seleccionar el modo de entrada.

Controles de ASPECTO

Los controles de aspecto le permiten elegir el aspecto dependiendo del formato de la señal recibida y sus preferencias.



Presione para cambiar el modo de aspecto.

Nota: Los modos de aspecto disponibles dependen de la señal recibida.

- 480i : 4:3, Full, Just o Zoom
- 480p (4:3) : 4:3, Full o Zoom
- 480p (16:9) : 4:3, Full o Zoom
- 1080i : 16:9 Sólo
- Modo PC : NORMAL, FULL, JUST o ZOOM
(En el modo PC, indicación "4:3" se visualiza como "NORMAL".)

Modo	Imagen	Explicación
4 : 3 (NORMAL en el modo PC)	<p>El diagrama muestra una imagen rectangular con una proporción de 4 de ancho por 3 de alto. Hay barras grises a los lados. Dimensiones: 4 (ancho) y 3 (alto).</p>	Muestra una imagen 4:3 en su tamaño 4:3 estándar con barras laterales color gris. (Puede crear un efecto de imagen secundaria en la pantalla si se muestra durante largos periodos de tiempo.)
Zoom	<p>El diagrama muestra una imagen 4:3 que se expande horizontalmente para ocupar el ancho de la pantalla (16). Dimensiones: 4 (ancho original) y 3 (alto original) se transforman en 16 (ancho) y 9 (alto).</p>	Expande uniformemente una imagen 4:3 (anchura y altura) para que ocupe toda la pantalla a lo ancho y luego reposiciona la imagen verticalmente. (Recomendado para la imagen tipo buzón.)
Full	<p>El diagrama muestra una imagen 4:3 que se expande horizontalmente para ocupar el ancho de la pantalla (16). Dimensiones: 4 (ancho original) y 3 (alto original) se transforman en 16 (ancho) y 9 (alto).</p>	Muestra una imagen ocupando toda la pantalla. (Recomendado para imágenes anamórficas.)
Just	<p>El diagrama muestra una imagen 4:3 que se alarga horizontalmente para ocupar el ancho de la pantalla (16). Dimensiones: 4 (ancho original) y 3 (alto original) se transforman en 16 (ancho) y 9 (alto).</p>	Alarga los bordes derecho e izquierdo de una imagen 4:3 para que llene la pantalla, y el centro de la pantalla tiene un aspecto de corrección aplicada. El tamaño de la imagen depende de la señal original. (Recomendado para ver normalmente la televisión.)

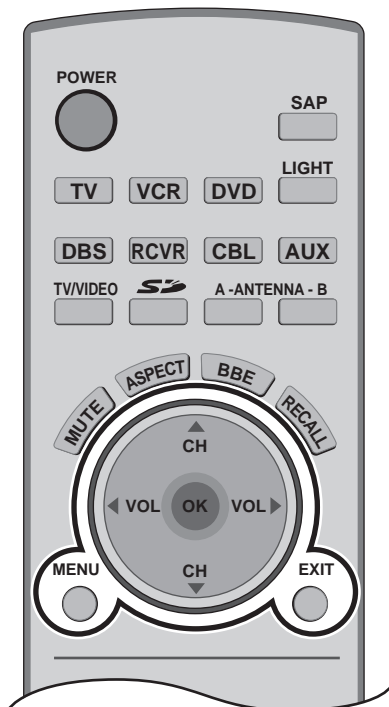
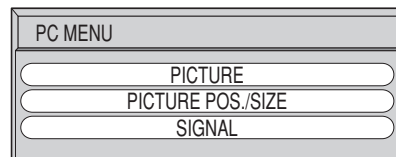
Nota:

En el modo PC, la información del modo de aspecto se visualiza en la parte superior derecha de la pantalla.

PC MENU

Preparación:

- Conecte un PC al televisor (vea la página 18).
- Seleccione el modo de entrada PC (vea la página 20).



- 1 Presione para visualizar el PC MENU.
 - 2 Presione para seleccionar el submenú.
Presione para visualizar el submenú.
 - 3 Presione para seleccionar el submenú secundario.
Presione para ajustar el submenú secundario.
- Para volver a la pantalla anterior**
- EXIT

PICTURE (IMAGEN)

■ NORMALIZE (NORMALIZAR)

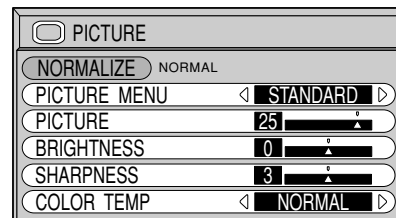
Seleccione "NORMALIZE" (NORMALIZAR) para reponer los ajustes predeterminados hechos en la fábrica.

Nota:

- Puede seleccionar "NORMALIZE" (NORMALIZAR) cuando cambie los ajustes.

■ PICTURE MENU (MENÚ DE IMAGEN)

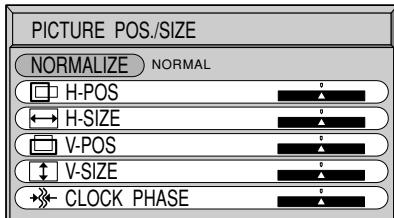
Elemento	Explicaciones
AUTO	Selecciona automáticamente el modo más adecuado al brillo del ambiente.
STANDARD	Para ver en ambientes estándar (iluminación de la tarde) Este menú selecciona los niveles normales del brillo y del contraste.
DYNAMIC	Para ver en ambientes brillantes. Este menú selecciona niveles de brillo y contraste más altos que los normales.
CINEMA	Ideal para ver películas.



■ PICTURE (IMAGEN), BRIGHTNESS (BRILLO), SHARPNESS (NITIDEZ), COLOR TEMP (TEMPERATURA DE COLOR)

Elemento	Explicaciones
PICTURE	Ajusta las partes blancas de la imagen.
BRIGHTNESS	Ajusta las partes oscuras de la imagen.
SHARPNESS	Ajusta la calidad de los detalles.
COLOR TEMP	Para aumentar o disminuir los colores Warm (rojo) y Cool (azul) según las preferencias personales.

PICTURE POS./SIZE (POSICIÓN DE IMAGEN/TAMAÑO)



Nota:

Si se recibe una señal "Cue" (Localización progresiva) o "Rew" (Localización regresiva) desde una videocasetera o reproductor DVD, la posición de la imagen podrá desplazarse hacia arriba o hacia abajo a pesar de los ajustes de PICTURE POS./SIZE (POSICIÓN DE IMAGEN/TAMAÑO).

■ NORMALIZE (NORMALIZAR)

Seleccione "NORMALIZE" (NORMALIZAR) para reponer los ajustes predeterminados hechos en la fábrica.

Nota:

- Puede seleccionar "NORMALIZE" (NORMALIZAR) cuando cambie los ajustes.

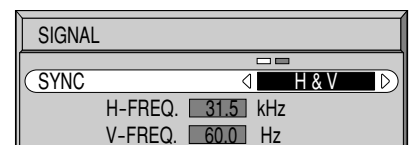
Elemento	Cuando se presiona la tecla de posición izquierda "◀".	Cuando se presiona la tecla de posición derecha "▶".
H-POS		
H-SIZE		
V-POS		
V-SIZE		
CLOCK PHASE (RGB/PC in Mode)	Utilizando la tecla de posición izquierda "◀" o la tecla de posición derecha "▶" para hacer ajustes se pueden eliminar los parpadeos y la distorsión.	

SIGNAL (SEÑAL)

■ SYNC

[Sólo para la señal RGB INPUT (ENTRADA RGB)]

- H & V: Las señales de sincronización H y V se introducen desde el conector HD/VD.
- ON G: Utiliza una señal sincronizada en la señal Video G, que se introduce desde el conector G.



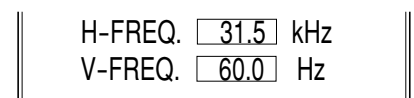
■ H-FREQ. (kHz)/V-FREQ. (Hz) [FRECUENCIA HORIZONTAL (kHz)/FRECUENCIA VERTICAL (Hz)]

[Sólo para la señal RGB INPUT (ENTRADA RGB)]

Indica las frecuencias H (horizontal)/V (vertical).

Gama de indicación:

- Horizontal 15 - 110 kHz
- Vertical 48 - 120 Hz



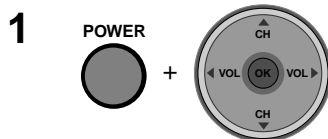
Funcionamiento de equipos periféricos utilizando el control remoto

Programación del código de control remoto

Puede controlar los componentes de otros fabricantes utilizando el control remoto de este televisor.

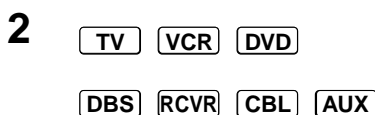
Preparación:

- Conecte el enchufe del componente externo a un tomacorrientes.
- Asegúrese de que el componente esté apagado.



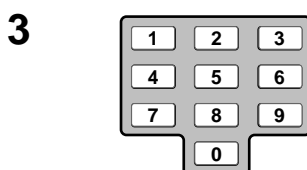
Mantenga presionado **POWER** y **OK** juntos durante un mínimo de 5 segundos.

- Los botones de selección de modo parpadean, y luego suelte **POWER** y **OK**.



Seleccione el tipo de componente.

- El botón seleccionado se enciende y todos los demás se apagan.



Introduzca el código de infrarrojos de 3 dígitos (vea las páginas 60-62).

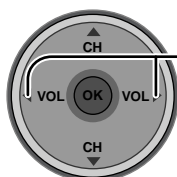
- Ajuste predeterminado en fábrica: Panasonic
- Presione **POWER** para probar la operación.

Notas:

- Si el componente no funciona con el control remoto, repita el procedimiento utilizando otro código. (Algunas marcas tienen múltiples códigos.)
- Si se introduce un código incorrecto, o si el procedimiento tarda más de 30 segundos, la programación fallará.

Para encontrar el código no listado en el índice

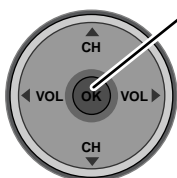
1 Después de seleccionar el tipo de componente (paso 2 anterior)



Presione para seleccionar el código.

- El código empieza desde el dispositivo actual.
- Presione **POWER** para probar la operación.
- Repita los pasos hasta encontrar el código del componente. Tal vez sea necesario hacer varios intentos antes de encontrar el código.

2



Presione para guardar el código.

Índice de claves infrarrojas

El control remoto es capaz de controlar muchas marcas de equipos periféricos. Consulte la página 59 para conocer los procedimientos de programación.

Notas:

- La memoria del control remoto es limitada y, por lo tanto, es posible que no pueda controlar algunos modelos. El control remoto no ha sido diseñado para controlar todas las funciones disponibles en todos los modelos.
- Después de introducir el código de infrarrojos apropiado, presione los botones selectores de modo (vea la página 20). Consulte las páginas 63 y 64 para conocer detalles del funcionamiento de los equipos periféricos utilizando el control remoto.

Claves de control remoto por infrarrojos para componentes específicos

Consejo útil: Escriba los números de la claves para sus componentes en los espacios suministrados abajo. Esto servirá como una referencia muy útil siempre que necesite volver a programar su control remoto.

CABLE Decodificador de televisión por cable	<input type="text"/>	VCR Videograbadora	<input type="text"/>	CD Reproductor de disco compacto	<input type="text"/>
DBS Sistema de emisión digital	<input type="text"/>	RCVR Receptor o amplificador	<input type="text"/>	LD Reproductor de disco láser	<input type="text"/>
Otro componente	<input type="text"/>	Otro componente	<input type="text"/>	Otro componente	<input type="text"/>
Otro componente	<input type="text"/>	Otro componente	<input type="text"/>	Otro componente	<input type="text"/>

Claves para videograbadora

VCR

Marca	Código
Admiral	335
Aiwa	332
Akai	314, 315, 316, 329
Audio Dynamic	311, 339
Bell & Howell	305, 313
Broksonic	320, 326
Canon	323, 325
CCE	343
Citizen	306
Craig	305, 306, 329
Curtis Mathes	324, 345
Daewoo	301, 324, 343
DBX	310, 311, 339
Dimensia	345
Emerson	303, 319, 320, 325, 326, 343
Fisher	305, 307, 308, 309, 313
Funai	320, 326, 334
GE	324, 333, 345
Goldstar	306
Gradiente	334
Hitachi	300, 323, 345
Instant Replay	323, 324
Jensen	339
JVC	310, 311, 334, 339
Kenwood	306, 310, 311, 339
LXI	300, 305, 306, 307, 308, 309
Magnavox	323, 324, 331
Marantz	310, 311, 339
Marta	306
Memorex	309, 324
MGA	338, 340, 341, 347, 348
Minolta	300, 345
Mitsubishi	338, 340, 341, 347, 348
Multitech	304, 347
NEC	310, 311, 334, 339
Olympic	323, 324

AUX

Marca	Código
Optimus	306, 321, 328, 335
Orion	320, 326
Panasonic	321, 322, 323, 324
Penney	300, 305, 310, 311, 324, 339, 345
Pentax	300, 311, 345
Philco	320, 323, 324, 326, 331, 343
Philips	323, 324, 331
Pioneer	323
Proscan	300, 301, 302, 323, 324, 331, 333, 345, 346
Quasar	321, 322, 323, 324
Radio Shack	305, 309, 324, 333, 336, 340
RCA	300, 301, 302, 323, 324, 331, 333, 345, 346
Realistic	305, 309, 324, 336, 340
Samsung	302, 304, 333
Sansui	320, 326, 339, 352
Sanyo	305, 309, 313
Scott	301, 302, 304, 309, 320, 326, 338, 340, 347, 348
Sears	300, 305, 306, 307, 308
Sharp	335, 336
Shintom	317
Signature 2000	335
Singer	317
Sony	328, 329, 330
Sylvania	323, 324, 331
Tashiro	306
Tatung	310, 311, 339
Teac	310, 311, 339
Technics	321, 322, 323, 324
Teknika	324
Toshiba	301, 346
Vector Research	311
Wards	306, 309, 335, 336, 344
Yamaha	305, 310, 311, 339
Zenith	306, 344

Funcionamiento de equipos periféricos utilizando el control remoto

DVD

Claves para DVD

Marca	Código
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101

Marca	Código
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

DVD

Claves para CD

Marca	Código
Admiral	226
Aiwa	233, 235
Carver	229
Denon	242
Emerson	239
Fisher	205
Harman Kardon	219, 220, 221, 223
Hitachi	207
Jensen	234
JVC	240, 241, 245
Kardon	223
Kenwood	200, 201, 211, 245
LXI/Sears	236
Magnavox	229, 232
Marantz	229
McIntosh	221
Nakamichi	210
Onkyo	214, 215

Marca	Código
Optimus	208, 218, 220, 222
Panasonic	224, 225, 227
Philips	229, 230
Pioneer	208
Quasar	224, 225, 227
RCA	231, 237, 238, 247
Sansui	210, 246
Sanyo	205
Scott	210, 246
Sharp	242, 243
Sherwood	220
Sony	228
Soundesign	244
Teac	212, 216, 218
Technics	224, 225, 227
Victor	240, 241, 245
Yamaha	202, 203, 204

AUX

Claves para videograbadoras personales

Marca	Código
Panasonic Replay TV	100
Philips Tivo	101
Sony Tivo	102

AUX

Claves para platina de casete

Marca	Código
Aiwa	223, 224, 225
Denon	231
Fisher	203
Jensen	214
JVC	229, 230
Kenwood	200, 207
Marantz	202
Nakamichi	205
Onkyo	208, 209, 213
Panasonic	216, 218

Marca	Código
Philips	222
Pioneer	204
RCA	226, 227, 228
Sansui	205, 210
Sharp	231
Sony	219, 220
Teac	210, 211, 215
Technics	216, 218
Yamaha	201, 202

Funcionamiento de equipos periféricos utilizando el control remoto

RCVR

Claves para receptores

Marca	Código
Admiral	120
Aiwa	125, 126
Denon	134, 135, 136
Fisher	104
Garrard	113
Harman Kardon	115, 123
Jensen	129
JVC	132, 133
Kenwood	100, 108
Magnavox	127
Marantz	124
McIntosh	116
Nakamichi	106
Onkyo	109, 114

Marca	Código
Optimus	103, 127, 130, 131
Panasonic	118, 119, 121
Philips	123
Pioneer	105, 107
Quasar	118, 119, 121
RCA	103, 105, 127, 130, 131
Sansui	103, 111, 139
Sharp	134, 137
Sony	122
Soundesign	138
Teac	111, 112, 113
Technics	118, 119, 121
Victor	132, 133
Yamaha	101, 102

CBL

Claves para decodificadores de televisión por cable

Marca	Código
ABC	124
Archer	125, 132
Cableview	105, 132
Citizen	105, 122
Curtis	112, 113
Diamond	124, 125, 132
Eagle	129
Eastern	134
GC Brand	105, 132
Gemini	122
General	111, 119, 120, 121, 122, 123,
Instrument/Jerrold	124, 125, 126, 127
Hamlin	112, 118, 140, 141, 142, 145
Hitachi	103, 124
Macom	103, 104, 105
Magnavox	133
Memorex	130
Movietime	105, 132
Oak	102, 137, 139
Panasonic	109, 110, 114
Philips	106, 107, 128, 129, 130
Pioneer	101, 116
Pulsar	105, 132

Marca	Código
Puser	132
RCA	115
Realistic	132
Regal	112, 118, 140, 141, 142, 145
Regency	134
Rembrandt	105, 132, 137
Samsung	105
Scientific Atlanta	111, 112, 113
Slmark	101, 105
Sprucer	105, 110
Stargate	105, 132
Tel eview	101, 105
Texscan	144
Tocom	135
Toshiba	104
Unika	125, 132
Universal	122, 132
Videoway	106
Viewstar	129, 130
Zenith	100, 117
Zenith /Drae Satellite	100

DBS

Claves para DBS


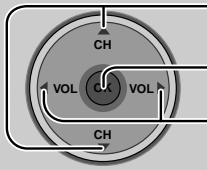



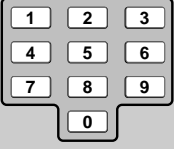



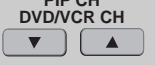
Marca	Código
Dish Network	105, 115, 116
Echo Star (Echostar)	105
Express VU	105, 115
G.E.	106
G.I. (General Instrument)	108
Gradiente	114
Hitachi	103, 111, 112
HNS (Hughes)	103

Marca	Código
Magnavox	101, 102
Panasonic	104
Philips	101, 102
Primestar	108
Proscan	106, 109, 110, 113
RCA	106, 109, 110, 113
Sony	107
Star Choice	103, 108
Thoshiba	100
Uniden	101, 102

Funcionamiento de equipos periféricos utilizando el control remoto

Tabla de teclas operacionales

Esta tabla define qué teclas son operacionales tras la programación (si es necesario), durante el modo de control remoto seleccionado para DTV, CABLE, DBS, VCR, DVD, etc.

NOMBRE DE TECLA	MODO DTV	MODO CABLE	MODO DBS
	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN
	NAVEGACIÓN ARRIBA/ABAJO	CANAL DE CABLE SUPERIOR/ INFERIOR	NAVEGACIÓN DBS HACIA ARRIBA/ABAJO
	ACEPTAR	–	MENU DBS
	NAVEGACIÓN DERECHA/ IZQUIERDA	–	NAVEGACIÓN DBS DERECHA/IZQUIERDA
	MENU DTV	–	–
	INFORMACIÓN DE PROGRAMA	–	INFORMACIÓN DE PROGRAMA DBS
	SALIDA DE GUÍA ELECTRÓNICA DE PROGRAMA (EPG)	–	SALIDA DE MENU DBS
	Selección de canales	Selección de canales	Selección de canales
	CANAL STB ANTERIOR	CANAL DE CABLE ANTERIOR	CANAL DBS ANTERIOR
	PROGRAMA DTV/RAYA	–	–
	INFORMACIÓN DE GUÍA ELECTRÓNICA DE PROGRAMA (EPG)	–	–
	–	–	CANAL DE DBS SUPERIOR/INFERIOR

Funcionamiento de equipos periféricos utilizando el control remoto




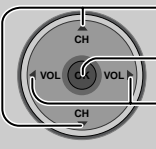

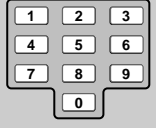


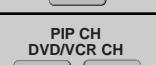









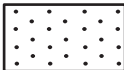













NOMBRE DE TECLA	MODO VCR	MODO DVD/CD		MODO AUX			MODO RCVR
		(DVD)	(CD)	(PVR)	(VCR2)	(TAPE)	
	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN
	-	-	-	-	-	-	SILENCIAMIENTO DE RCVR
	CONMUTACIÓN DE ENTRADA DE TV	-	-	-	CONMUTACIÓN DE ENTRADA DE TV	-	CONMUTACIÓN DE ENTRADA DE RCVR
	-	-	-	-	-	-	BOTONES DE CONTROL REMOTO
	-	NAVEGACIÓN HACIA ARRIBA/ABAJO	PISTA SIGUIENTE/ ANTERIOR	NAVEGACIÓN HACIA ARRIBA/ABAJO	-	-	SINTONIZADOR +/-
	-	-	-	-	-	-	-
	-	-	-	NAVEGACIÓN DERECHA/IZQUIERDA	-	VOLUMEN +/-	VOLUMEN DE RCVR +/-
	-	-	-	MENU PVR	-	-	-
	VISUALIZACIÓN EN PANTALLA DE VIDEOGRABADORA	VISUALIZACIÓN DE DVD	FORMATO DE TIEMPO	-	VISUALIZACIÓN EN PANTALLA DE VIDEOGRABADORA	-	-
	-	-	-	SALIDA MENU PVR	-	-	-
	-	-	-	Selección de canales	-	-	1.... AV1 2.... AV2 3.... AV3 4.... AV4 5.... CD 6.... TUNER 7.... PHONO 8.... TAPE 9.... AUX
	-	-	-	ZONAS DE RELEVO DE CANALES ANTERIORES	-	PLATINA A/B	-
	-	-	-	VUELVA A EN VIVO PVR	-	-	-
	REBOBINADO/ AVANCE RÁPIDO DE VIDEOGRABADORA	BÚSQUEDA CON SALTO REBOBINADO/ AVANCE RÁPIDO	BÚSQUEDA EN REBOBINADO/ AVANCE RÁPIDO	-	REBOBINADO/ AVANCE RÁPIDO DE VIDEOGRABADORA	REBOBINADO/ AVANCE RÁPIDO DE CINTA	SONIDO ENVOLVENTE +/-
	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	REPRODUCCIÓN	-
	PAUSA	IMAGEN FIJA/ PAUSA	PAUSA	PAUSA	PAUSA	PAUSA	-
	PARADA	PARADA	PARADA	-	PARADA	PARADA	-
	GRABACIÓN DE VIDEOGRABADORA	-	-	GRABACIÓN DE PVR	GRABACIÓN DE VIDEOGRABADORA	GRABACIÓN DE CINTA	-
	CONMUTACIÓN DE TV/ VIDEOGRABADORA	LENTA +/-	-	-	CONMUTACIÓN DE TV/ VIDEOGRABADORA	-	-
	CANAL DE VIDEOGRABADORA SUPERIOR/INFERIOR	-	-	ARRIBA/ABAJO DE CANAL PVR	CANAL DE VIDEOGRABADORA SUPERIOR/INFERIOR	-	CENTRO +/- DE RCVR
	-	ABERTURA/ CIERRE	ABERTURA/ CIERRE	SALTO RAPIDO EN PVR	-	-	-

Tabla de solución de problemas

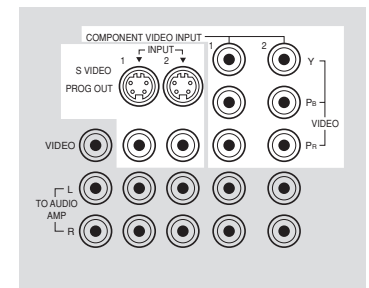
Antes de llamar al servicio de reparaciones, determine los síntomas y siga las soluciones sugeridas.

Síntomas		Soluciones	Página
VÍDEO	AUDIO		
 Vídeo con efecto de nieve	 Audio con ruido	<ul style="list-style-type: none"> • Ajuste la ubicación de la antena y su conexión. 	13, 14
 Imagen múltiple	 Audio con ruido	<ul style="list-style-type: none"> • Ajuste la ubicación de la antena y su conexión. • Compruebe el cable de bajada de antena. 	13, 14 13, 14
 Interferencia	 Audio con ruido	<ul style="list-style-type: none"> • Separe el televisor de los aparatos eléctricos, luces, vehículos y equipos médicos. 	–
 Vídeo normal	 No hay audio	<ul style="list-style-type: none"> • Suba el volumen. • Compruebe el silenciamiento. • Compruebe si los altavoces del televisor están encendidos/apagados. • Cambie el canal. 	23 20 29 23
 No hay vídeo pero sí efecto de nieve	 Audio con ruido	<ul style="list-style-type: none"> • Programa correctamente la entrada. • Compruebe los cables de las antenas. 	36 13, 14
 No hay vídeo ni PIP	 No hay audio	<ul style="list-style-type: none"> • Compruebe que el cable de la alimentación esté conectado al tomacorrientes. • Ajuste los controles de brillo y audio. • Cambie el canal. • Compruebe las conexiones de los cables. • Programa el código del control remoto. • Compruebe la operación de la segunda fuente de vídeo. • Asegúrese de que haya un PC conectado a la entrada HDMI. Muy raramente, el televisor no mostrará imágenes en HDMI introducidas desde dispositivos con salida HDMI o DVI debido a la mala comunicación entre el televisor y los dispositivos. Si pasa esto, desenchufe los dispositivos HDMI/DVI y vuelva a enchufarlos. 	19 26,28,29 23 13-18 59-61 59-64 15
 No hay color	 Audio normal	<ul style="list-style-type: none"> • Ajuste los colores. • Cambie el canal. 	26, 27 23
 Digitalización de la imagen Congelación de imagen	 Interrupción de audio	<ul style="list-style-type: none"> • Vuelva a orientar la antena de ATSC. • Compruebe el medidor de señales. Si la señal es débil, agregue un reforzador de señales para reforzar la intensidad de la señal. 	– 38
 Vídeo normal	 Audio equivocado	<ul style="list-style-type: none"> • Compruebe que el modo de audio esté en estéreo o mono, no en SAP. • Cambie el audio del dispositivo HDMI a Linear PCM. • Compruebe el ajuste para HDMI. Si hay un problema funcional con el audio digital, utilice el audio analógico. 	21 – 29
 Recuadro negro en la pantalla	 Audio normal	<ul style="list-style-type: none"> • Cambia CC (subtítulos ocultos). 	39, 40
 Vídeo normal	 Audio normal	<ul style="list-style-type: none"> • Reemplace las pilas del control remoto. 	9
Operación intermitente del control remoto			
No es posible seleccionar Antenna B (Antena B)		<ul style="list-style-type: none"> • Realice Auto Scan (Exploración automática). 	36

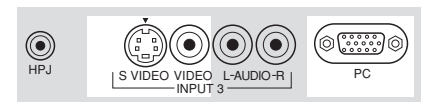
Entrada de VÍDEO

	Nombre de la señal	Frecuencia horizontal (kHz)	Frecuencia vertical (Hz)
1	NTSC	15,73	59,94

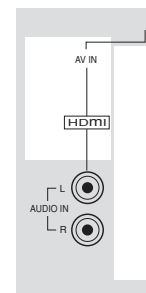
Señales de entrada aplicables [asterisco *]



Entrada de VÍDEO
Entrada de Componente



Entrada de VÍDEO Entrada de PC RGB



Nota: Las señales sin las especificaciones de arriba puede que no se visualicen correctamente.

Especificaciones

	TH-37PX25	TH-42PX25	TH-50PX25
Alimentación	CA 120 V, 50/60 Hz		
Consumo	Máxima: 395 W Condición de espera: 18 W	Máxima: 445 W Condición de espera: 18 W	Máxima : 545 W Condición de espera: 18 W
Panel de pantalla de plasma	37 pulgadas, relación de aspecto de 16:9 Tipo CA con método directo	42 pulgadas, relación de aspecto de 16:9 Tipo CA con método directo	50 pulgadas, relación de aspecto de 16:9 Tipo CA con método directo
Tamaño de la pantalla	32,20 " (818 mm) (ancho) × 18,15 " (461 mm) (alto) × 36,97 " (939 mm) (diagonal)	36,22 " (920 mm) (ancho) × 20,39 " (518 mm) (alto) × 41,57 " (1056 mm) (diagonal)	43,54 " (1106 mm) (ancho) × 24,49 " (622 mm) (alto) × 49,96 " (1269 mm) (diagonal)
Dimensiones (An. × Al. × Prof.)	40,94 " (1040 mm) × 27,44 " (697 mm) × 5,47 " (139 mm)	44,88 " (1140 mm) × 29,8 " (757 mm) × 5,47 " (139 mm)	52,32 " (1329mm) × 34,25 " (870 mm) × 5,47 " (139 mm)
Massa (Peso)	81,6 lb. (37 kg), neto	92,6 lb (42 kg), neto	125,7 lb (57 kg), neto
Capacidad de recepción de canales:ATSC/NTSC	VHF/ UHF : 2-69, CATV:1-135		
Sonido	Altavoces	Altavoz de graves ø 80 mm × 2, Altavoz de agudos (16 mm × 73 mm) × 8	
	Salida de audio	26 W [5 W + 5 W, 8 W + 8 W] (10% de distorsión armónica total)	
	Auriculares	1 jacks M3 (3,5 mm)	
CARACTERÍSTICAS	Funciones de visualización en dos pantallas BBE VIVA 3D Subtítulos ocultos	FILTRO Y/C 3D PIP LINEAL V-Chip	HDMI Visor JPEG
Accesorios suministrados	Control remoto: EUR7627Z10 Núcleo de ferrita : grande × 4, pequeño × 5 2 pilas R6 (AA) Adaptador de antena tipo F (3C-2V × 2, 5C-2V × 2) Cable de CA Pedestal Abrazadera × 2		
Condiciones de funcionamiento	Temperatura: 34°F - 104°F (0° - 40°C) Humedad: 20% - 80% (sin condensación)		
Terminales de conexión	RGB input	D-SUB DE 15	R,G,B / 0,7 Vp-p (75 Ω) HD, VD / 1,0 - 5,0 Vp-p (alta impedancia)
	AV INPUT 1- 3	VIDEO (Tipo de jack fonográfico) S-VIDEO (Mini DIN de 4 contactos)	1,0 Vp-p (75 Ω) Y : 1,0 Vp-p (75 Ω), C : 0,286 Vp-p (75 Ω)
		AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
	AV PROG. OUT	VIDEO (Tipo de jack fonográfico)	1,0 Vp-p (75 Ω)
		AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
	TO AUDIO AMP	AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
	COMPONENT VIDEO INPUT1-2	Y P _B / P _R AUDIO L-R (2 jacks tipo fonográfico)	1,0 Vp-p (incluyendo sincronización) ± 0,35 Vp-p 0,5 Vrms
	HDMI	Connectador HDMI tipo A AUDIO L-R (2 jacks tipo fonográfico)	0,5 Vrms
	DIGITAL AUDIO OUT	PCM / Dolby Digital, fibra óptica	

Nota: El diseño y las especificaciones están sujetos a cambios sin previo aviso. El Massa y dimensiones son aproximados.

Anotación del cliente

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

Modelo _____

Número de serie _____

**Panasonic Consumer Electronics
Company, Division of Matsushita
Electric Corporation of America**
One Panasonic Way Secaucus,
New Jersey 07094

**Panasonic Sales Company,
Division of Matsushita Electric
of Puerto Rico Inc. (PSC)**
Ave. 65 de Infantería, Km 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985