



Panasonic®

Operating Instructions Wide LCD Television

Model No. **TC-32LX300**



TV screen image is simulated.

For assistance, please call : 1-800-211-PANA (7262)
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

TQB2AA0527-1

Important Safety Instructions



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.

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

■ Important Safety Instructions for LCD TV

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



Important Safety Instructions

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

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

- When the power cord or plug is damaged or frayed.
- If liquid has been spilled into the LCD TV.
- If the LCD TV has been exposed to rain or water.
- If the LCD TV does not operate normally by following the operating instructions.

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

- If the LCD TV has been dropped or the cabinet has been damaged.
- If the LCD TV exhibits a distinct change in performance - this indicates a need for service.

21) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22) **WARNING : TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.**

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

23) **CAUTION** : TO PREVENT ELECTRIC SHOCK DO NOT USE THIS PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

24) **CAUTION** : USE WITH OTHER STAND MAY RESULT IN INSTABILITY CAUSING POSSIBLE INJURY.

25) **CAUTION** : DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

• Secure ventilation

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

NOTES:

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

- The marking or retained image on the LCD panel resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

■ Important Information Regarding Use of Video Games, Computers, Captions or Other Fixed Image Displays.

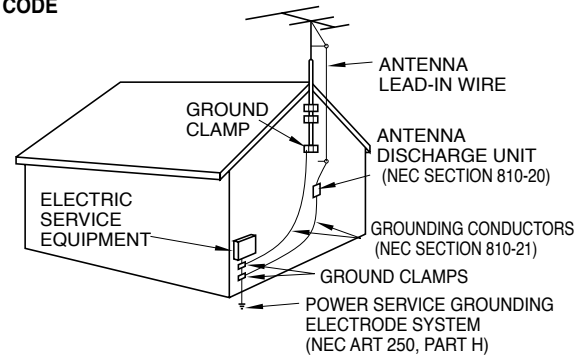
The extended use of fixed image program material can cause a “shadow image” on the LCD panel.

This background image is viewable on normal programs in the form of a stationary fixed image. This type of LCD panel deterioration can be limited by observing the following steps:

- Reduce the brightness/contrast setting to a minimum viewing level.
- Do not display the fixed image for extended periods of time.
- Turn the power off when not in actual use.

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

EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE



Dear Panasonic Customer

Welcome to the Panasonic family of customers.

We hope that you will have many years of enjoyment with your new LCD TV.

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

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

For assistance, please call : 1-800-211-PANA (7262)

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)

Federal Communication Commission Information

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

Reorient or relocate the TV antenna.

Increase the separation between TV and other equipment.

Connect TV into separate outlet from other equipment.

Consult the dealer or an experienced radio / TV technician for help.

FCC Caution: Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications not expressly approved by Matsushita Electric Corporation of America could result in harmful interference and would void the user's authority to operate this equipment.



Manufactured under license from Dolby Laboratories.

"Dolby" and the double-D symbol 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.

CableCARD™ is a trademark of Cable Television Laboratories, Inc.

Table of Contents

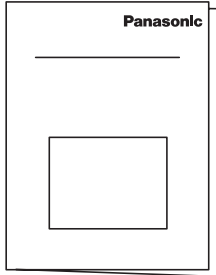
Important Safety Instructions	2	Clock Set	29
Accessories	6	Day Set	29
Remote control battery	6	Setup	30
Installation	7	Program CH	30
Location of Controls	8	Auto Scan	31
The Main Unit	8	Manual Program	31
The Remote Control	8	Closed Caption	33
Connections	10	Other Adjust	35
Antenna Connection	10	CableCARD™	35
Cable Box Connection	10	Lock	36
Audio / Video Connections	11	Lock Set	36
AUDIO OUT Connection	11	Channel Lock	37
VIDEO 1 / 2 INPUT Connection	12	Block Program	37
COMPONENT VIDEO INPUT Connection	12	How Long?	39
HDMI Connection	13	Password	39
CableCARD™ Connection	14	Card operations	40
Front Panel Connection	14	Inserting and removing a card	40
Power ON / OFF	15	Compatible card type and card size	40
First Time Setup	15	Folders and Files	41
Input Setup	15	SD Menu	42
Auto Scan	16	SD Record	42
Language	16	Movie Menu	43
Watching TV programs	17	Picture Menu	44
VHF and UHF	17	Record Setting	45
Cable TV	17	Format	46
Menu Navigation	18	Memory Left	46
Picture	20	SPLIT Operation	48
Pic Mode	20	To swap the pictures	48
Back Light / Color / Tint / Brightness / Picture / Sharpness / Normal ..	20	To select the input mode of SPLIT frame	48
Other Adjust	20	Aspect Controls	49
Audio	22	Operating peripheral equipment using the remote control ...	50
Bass / Treble / Balance / Normal	22	Programming the remote control code	50
Other Adjust	22	To find a code not listed in the index	50
Channel	24	Infrared Code Index	51
Favorite	24	Mode Operational Key Chart	54
Captions	25	Troubleshooting	56
Timer	27	Specifications	57
Sleep	27	Maintenance	57
Timer	28	Limited Warranty	58
		Customer Services Directory	60

Accessories

Check that you have the accessories and items shown



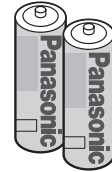
Operating Instruction book



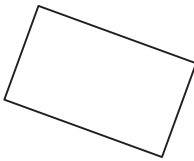
Remote control EUR7627Z30



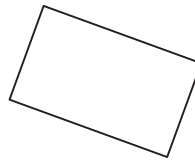
Batteries for the remote control (AA Battery × 2)



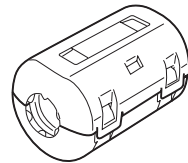
Customer card



Customer care plan card

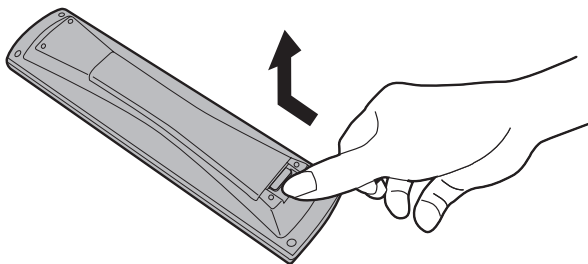


Ferrite core (for HDMI cable) (× 1)

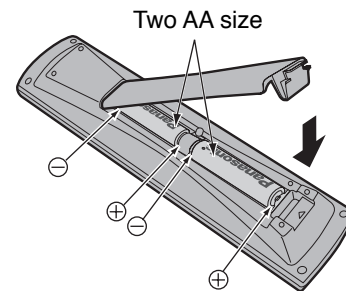


Remote control battery

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 50, prior to setting up the remote control.

⚠ Precaution 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.

Installation

Receiver Location

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, antenna cables should utilize 75 Ω 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'll need.

For Optimum Quality Picture

When the LCD is exposed to light from outdoors or lighting fixtures, high-contrast pictures may not be displayed clearly. Turn off florescent lamps near the LCD and place in a location not exposed to outdoor light.

How to Hang the LCD TV on the Wall

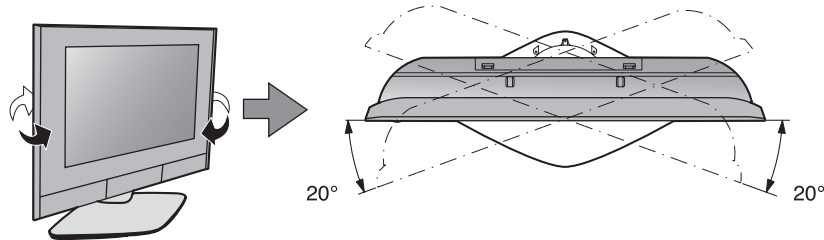
Wall-mounting this LCD TV should be done with the following optional accessory only. Wall-mounting with any other type of bracket may cause instability which could result in the possibility of damage or injury.

- Wall-hanging bracket..... TY-WK32LX20W

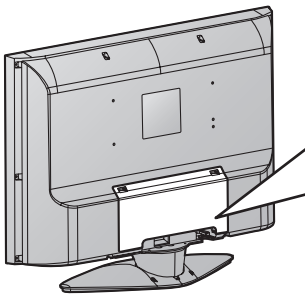
Please consult a qualified technician to perform proper installation.

How to Use the LCD Stand

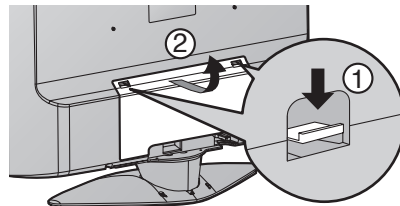
Adjust the stand to the desired angle. The stand angle can be adjusted between 20° left and 20° right.



Cable cover Removal and Reinstallation

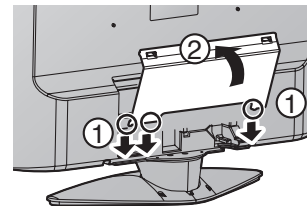


Removal



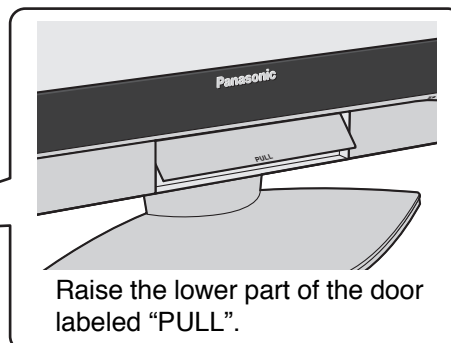
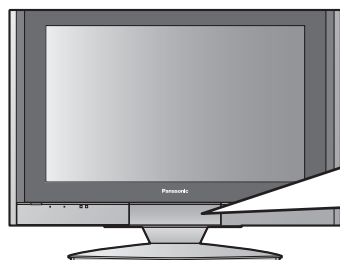
1. Push down hooks and pull the cover slightly towards you to disengage the claws (at 3 points).
2. Slowly pull out in the downward direction.

Reinstallation



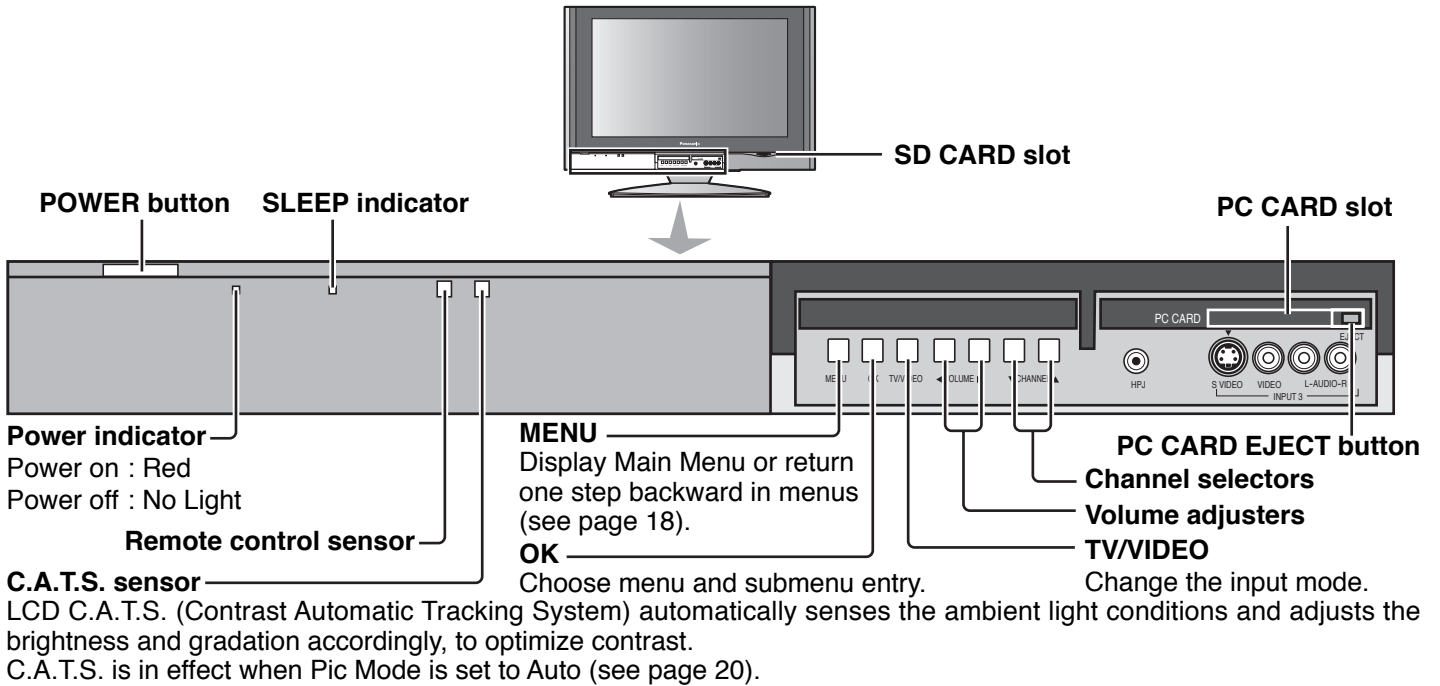
1. Insert the claws (at 3 points) at the bottom.
2. Push the cover until hooks click into place.

Opening Front Control Door



Location of Controls

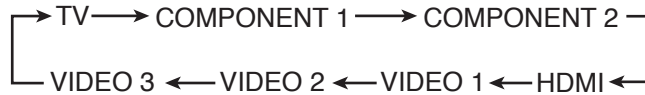
The Main Unit



The Remote Control

TV/VIDEO

Change the input mode.



SD

Access Card operations (see page 42).

MUTE

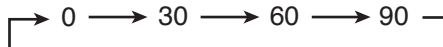
Mute the sound. Press again to cancel the mute.

ASPECT

Change the picture aspect (see page 49).

SLEEP (TV mode)

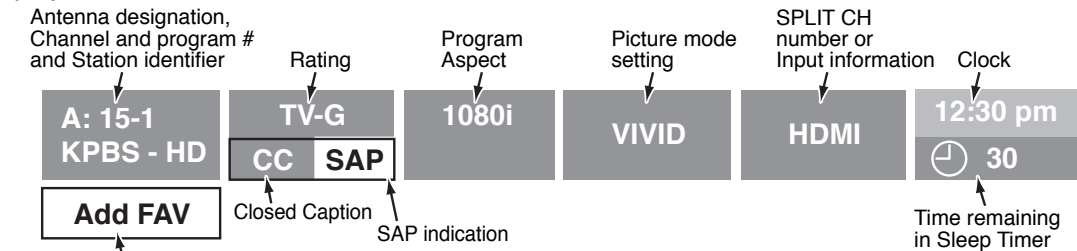
Set the sleep time to put the TV into standby mode.



- When 3 minutes left, "3" will flash. ("2" for 2 minutes and "1" for 1 minute).
- The SLEEP timer is cancelled when the power is turned off.

RECALL

Display or remove the channel banner.



Press OK button to add or delete the channel in the Favorite channel list (see page 24).

R-TUNE

Switch to previously viewed channel and input modes.

Location of Controls

POWER

Turn the TV ON or OFF.

Mode Selection buttons (see page 50)

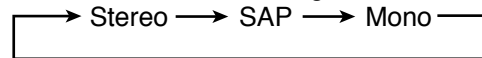
TV: TV	RCVR: Receiver/Amplifier
VCR: VCR	DBS: Digital Broadcasting Satellite
DVD: DVD	CBL: Cable TV
DTV: Digital TV	AUX: Aux

SAP

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

Audio Track 1 of 1 (English)

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



LIGHT

Light the remote control buttons. The selected mode button blinks when lit.

A -ANTENNA - B

Switch to (A or B) RF antenna input.

▲ **CH**: Change to the next channel up.
 ▲ : Move cursor upward during menu mode.
 ◀ **VOL** : Reduces volume.
 ◀ : Move cursor to the left during menu mode.
 ▶ **VOL** : Increase volume.
 ▶ : Move cursor to the right during menu mode.
 ▼ **CH**: Change to the next channel down.
 ▼ : Move cursor downward during menu mode.

MENU
 Display Main Menu or return one step backward in menus (see page 18).

EXIT
 Exit menus.

Direct program number selection buttons

PROG -: When tuning a digital channel, press the button to enter the minor number in a compound channel number.

- To enter the channel number
ex. CH 15-1: [1] → [5] → [-] → [1] → [OK]

SWAP

Swap pictures in SPLIT operations (see page 48).

SPLIT

Split Screen (see page 48).

Operation of other Device
(see pages 54, 55)

SPLIT CH

Select the channel during SPLIT operations (see page 48).

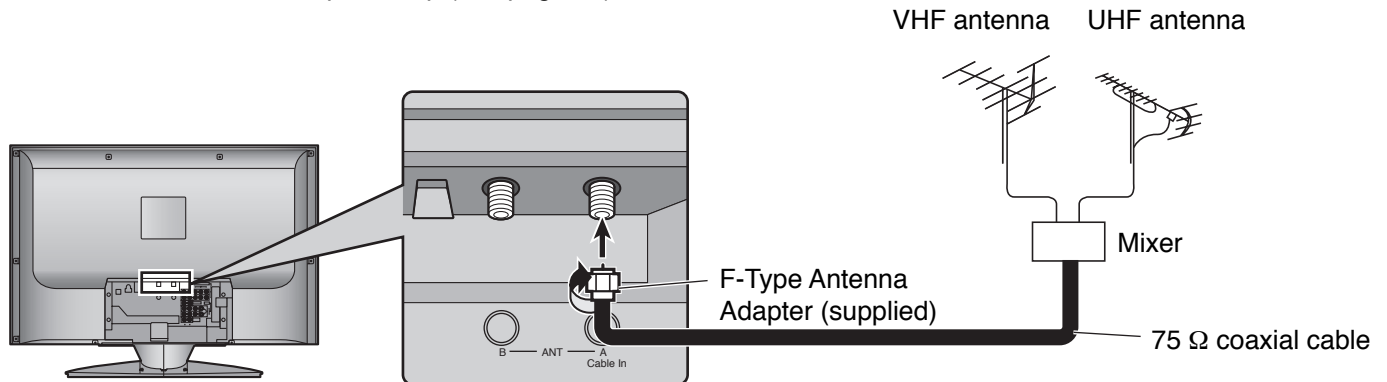


Panasonic
TV

Connections

Antenna Connection

- For proper reception of VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.
- To view over-the-air TV programs only, connect the home antenna to ANTENNA (A).
- To view over-the-air TV programs and 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 15).

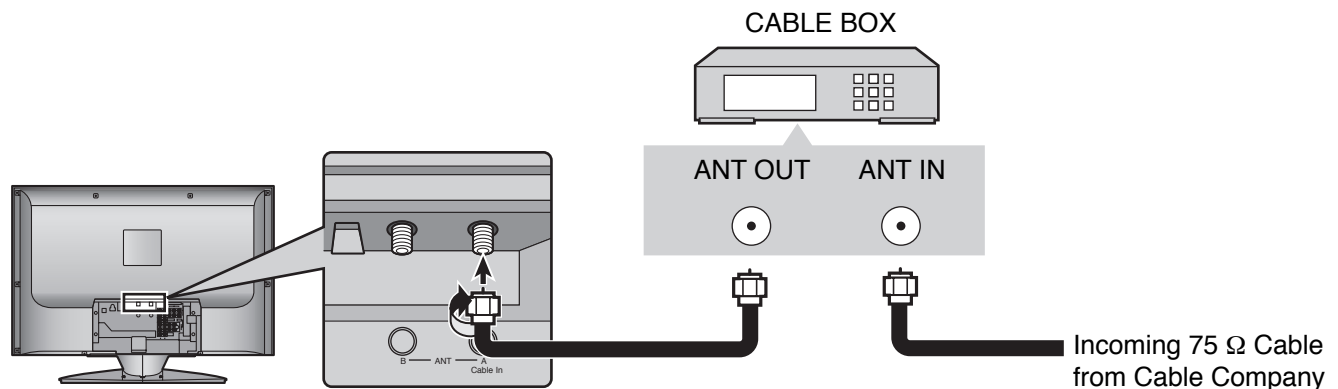


Notes:

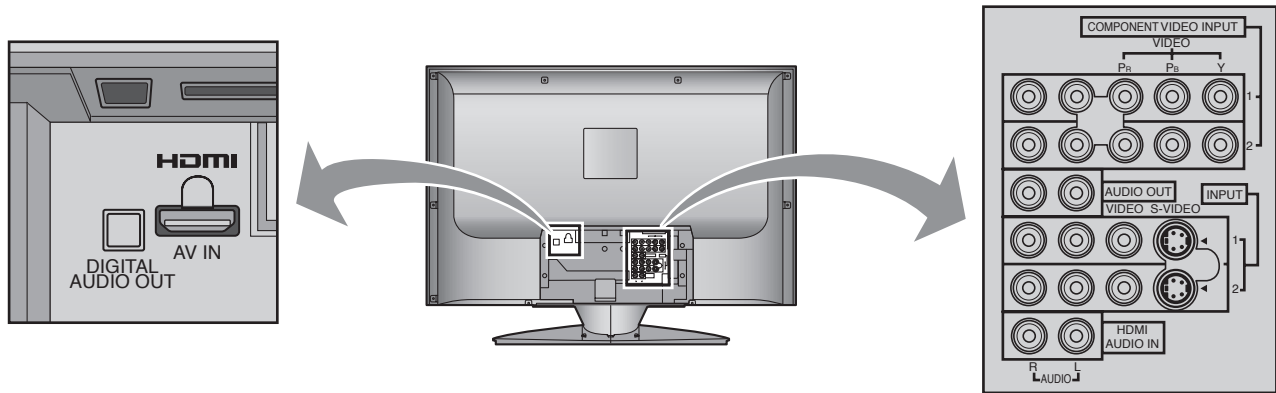
- Certain cable systems offset some channels to reduce interference or have premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local cable company for its compatibility requirements.
- To obtain optimum picture and sound, an antenna, the correct cable (75 Ω coaxial) and the correct terminating connector are required.
- If a communal antenna system is used, you may need the correct connection cable and plug between the wall antenna socket and your television receiver.
- Your local television service center 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

- To view 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 15).



Audio / Video Connections

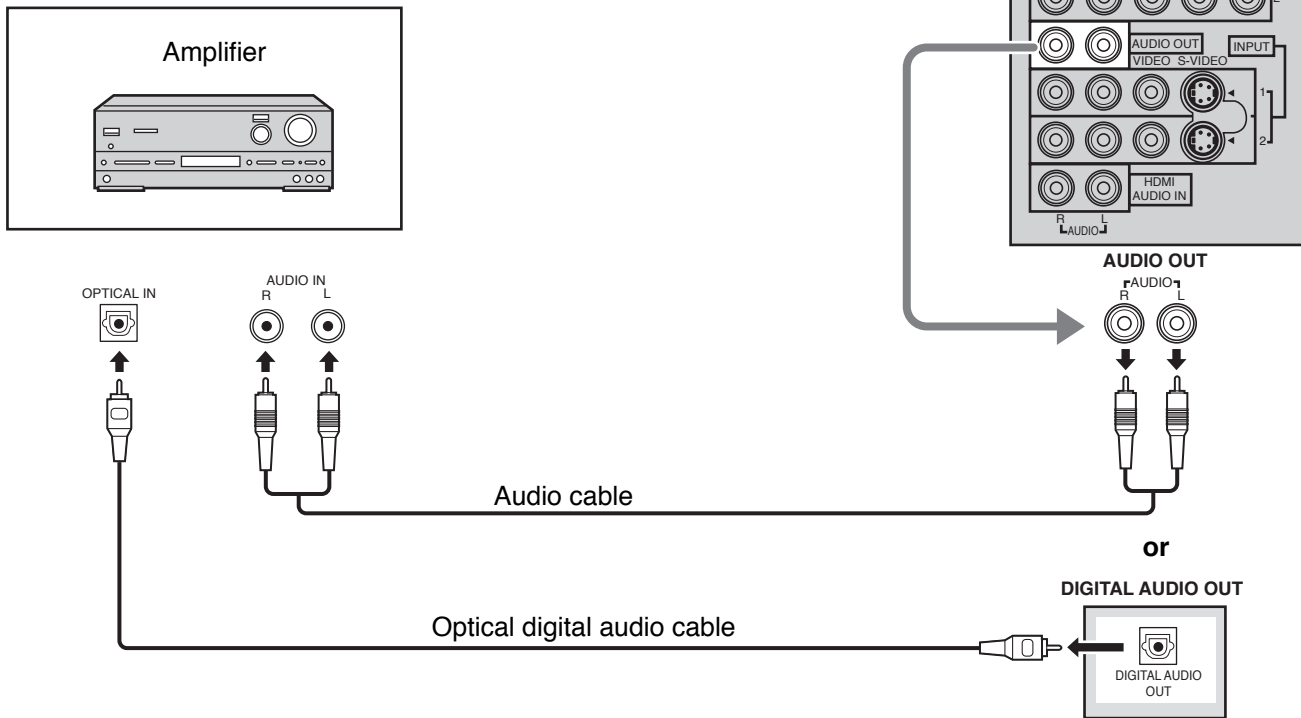


AUDIO OUT Connection

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.

Example of output audio connection



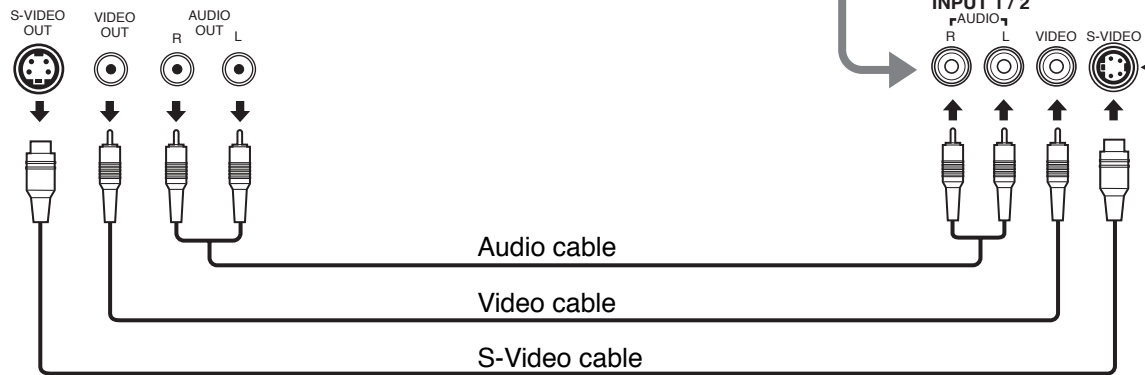
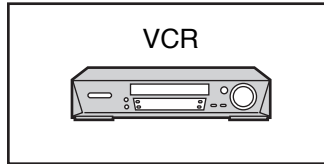
Notes:

- External speakers cannot be connected directly to AUDIO OUT terminals.
- When ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When NTSC channel is selected, the output will be PCM.

Connections

VIDEO 1 / 2 INPUT Connection

Example of input signal source



Note:

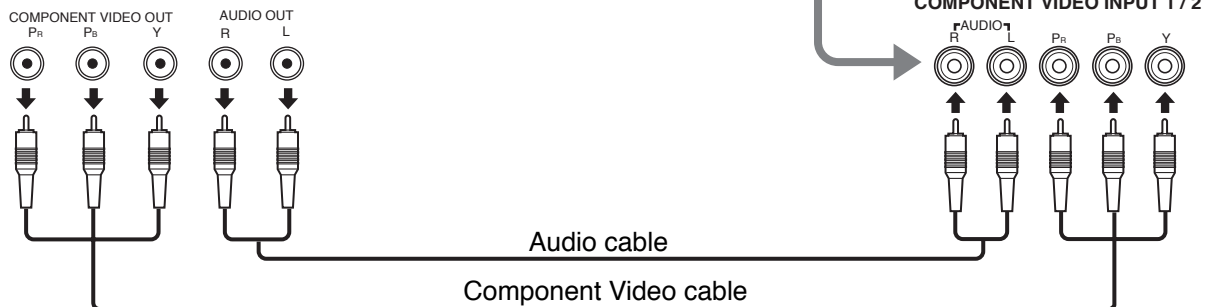
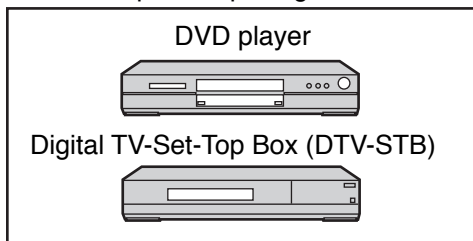
Connect the S-VIDEO or VIDEO terminal.

COMPONENT VIDEO INPUT 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 video inputs provide luminance and separate color signals.
- Set 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.

Example of input signal source



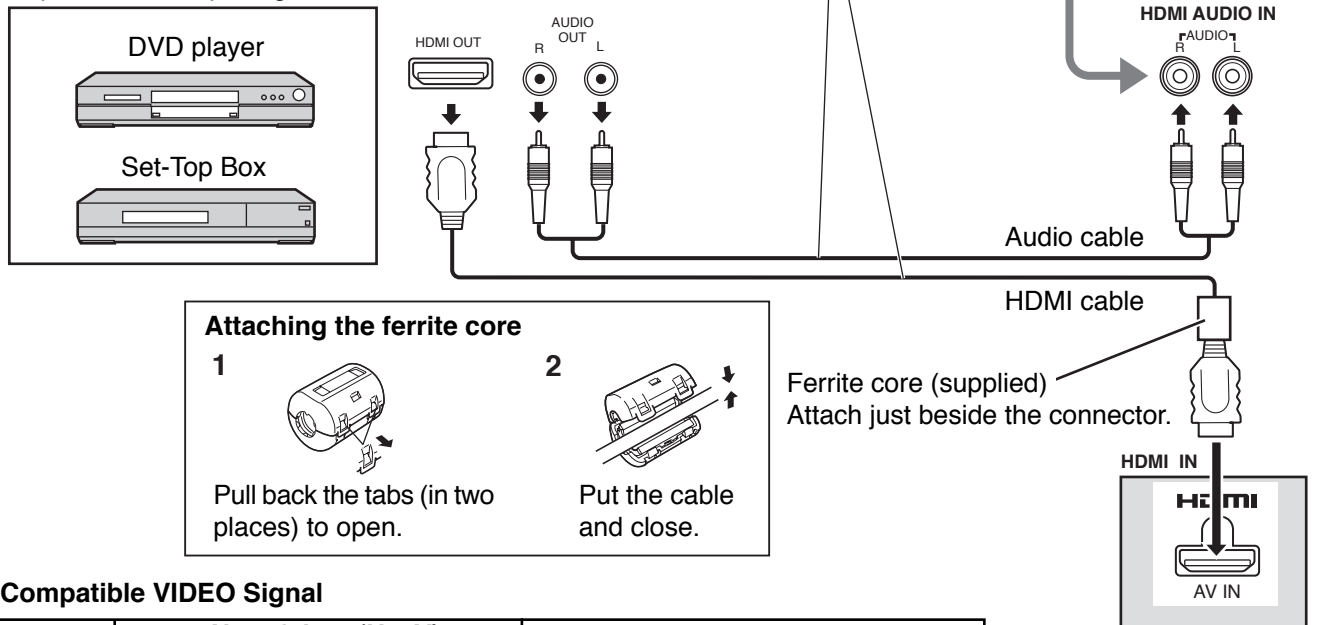
HDMI Connection

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.

An EIA/CEA-861/861B*²-compliant device, such as a Set-Top Box or DVD player with HDMI or DVI output terminal can be connected to the HDMI input terminal.

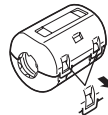
- If the external device has DVI output only, use a DVI to HDMI adapter cable*³ to connect to the HDMI terminal.
- Connect the audio cables to the AUDIO IN terminals when using a DVI to HDMI adapter cable.
- Select the audio setting in HDMI In (see page 23).

Example of HDMI input signal source



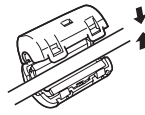
Attaching the ferrite core

1



Pull back the tabs (in two places) to open.

2



Put the cable and close.

Ferrite core (supplied)
Attach just beside the connector.

Compatible VIDEO Signal

	No. of dots (H × V)	Vertical scanning frequency (Hz)
720p	1,280 × 720p	59.94/60
1080i	1,920 × 1,080i	59.94/60
480p	720 × 480p	59.94/60
	640 × 480p	59.94/60
480i	720 × 480i	59.94/60

Notes:

- This input terminal is not intended for use with computers.
- 720p/1080i signals will be re-formatted to view on your LCD display.

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

Notes:

- This HDMI connector is Type A.
- If you connect equipment without a digital output terminal, connect to the COMPONENT VIDEO, S-VIDEO or VIDEO input terminal on the TV so you can receive an analog signal.
- The HDMI IN terminal can only be used with 720p, 1080i, 480i or 480p picture signals. Set the Digital Set -Top Box DIGITAL OUT terminal Output setting to 720p, 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.

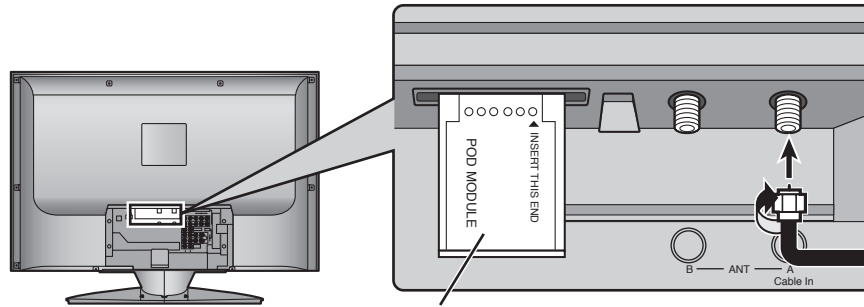
Connections

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 15).
3. Set the input mode to TV (see page 8).
4. Insert the CableCARD™ (with upper side facing out) into CableCARD™ slot on the back of the TV.
Follow the messages displayed on the screen.



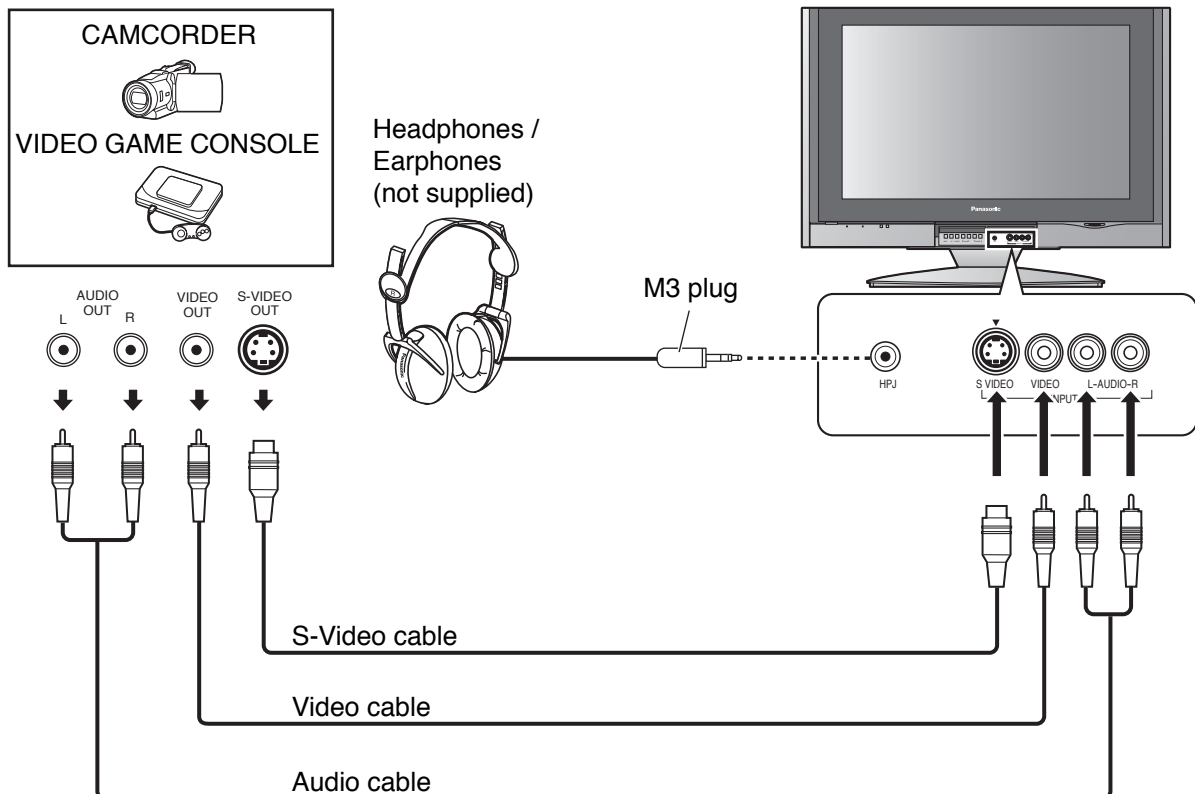
Upper side of the card

Notes:

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

Front Panel Connection

Example of input signal source

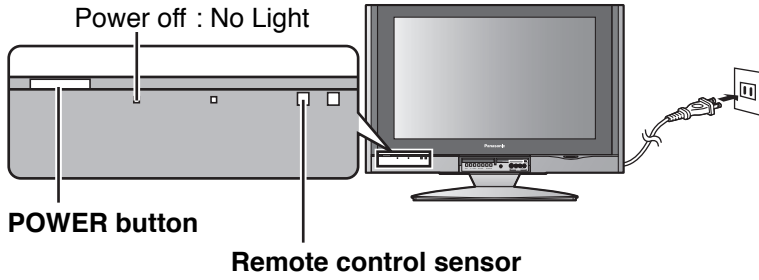


Note:


Connect the S-VIDEO or VIDEO terminal.

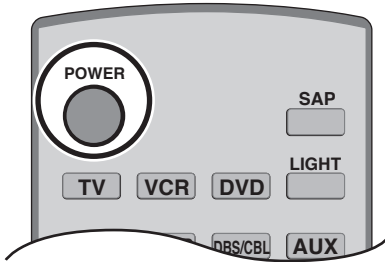
Power ON / OFF

Power indicator
 Power on : Red
 Power off : No Light



1 Connect the plug to the wall outlet.

2  Press to turn the TV on or off.



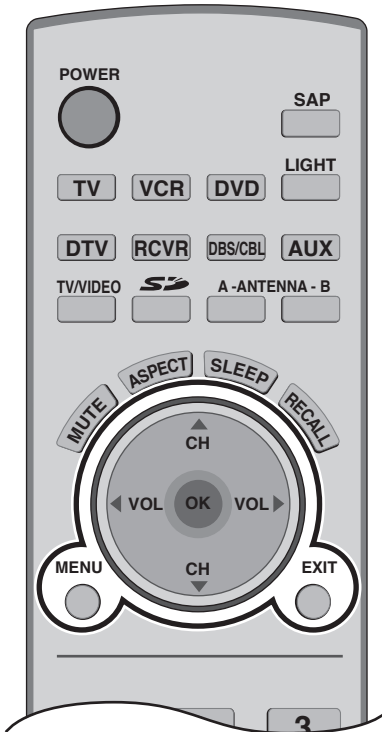
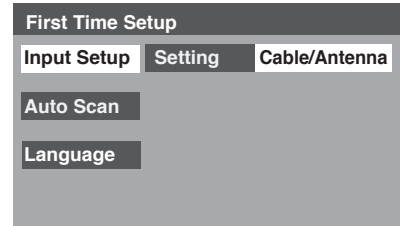
Note:
 The TV will consume some power as long as the power cord is inserted into the wall outlet.

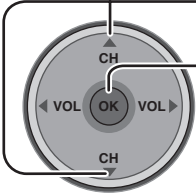
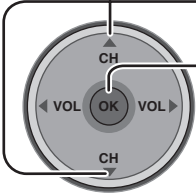
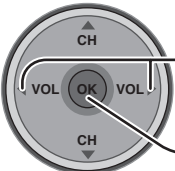
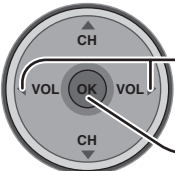
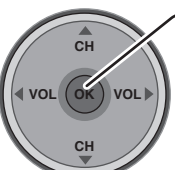
First Time Setup

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 30-32).

Input Setup

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

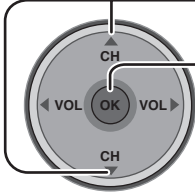
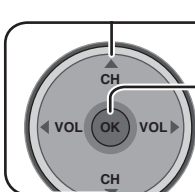
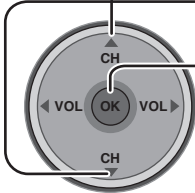
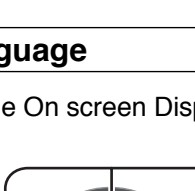


- 1**  Press to select Input Setup.
 Press to enter the sub-menu field.
- 2**  Press to select Cable Only, Cable/Antenna or Antenna Only.
 Press to enter your selection.
- 3**  Press to start the Auto Scan. All available channels with a signal will be programmed into memory.

First Time Setup

Auto Scan

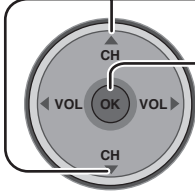
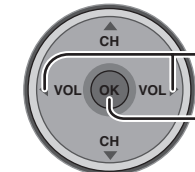

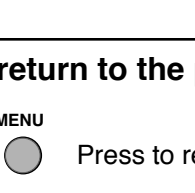
This feature allows you to selectively auto scan channels. You can scan All, Analog only channels or Analog & Digital channels.

-  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
Language	Antenna (B) Analog
	Antenna (B) Analog & Digital


Language

Select the On screen Display language.


-  Press to select Language.
 Press to enter the sub-menu field.
-  Press to select English, Spanish or French.
 Press to enter your selection.

First Time Setup		
Input Setup	Setting	English
Auto Scan		
Language		

To return to the previous menu

- MENU**
 Press to return.

To exit the menu

- EXIT**
 Press to return to normal picture.



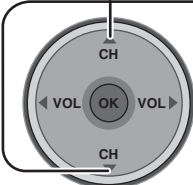

Notes:

- 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



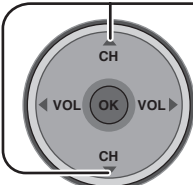


-  Press to operate the TV set with the remote control.
-  Press to turn the TV on.
-  Press to select desired channel.
-  Press to select the desired volume level.

Notes:

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

-  Press to 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 toward the cable box.

Notes:

- The remote control code number is set for Panasonic products.
- To operate other manufacturer's product, see pages 50-55.

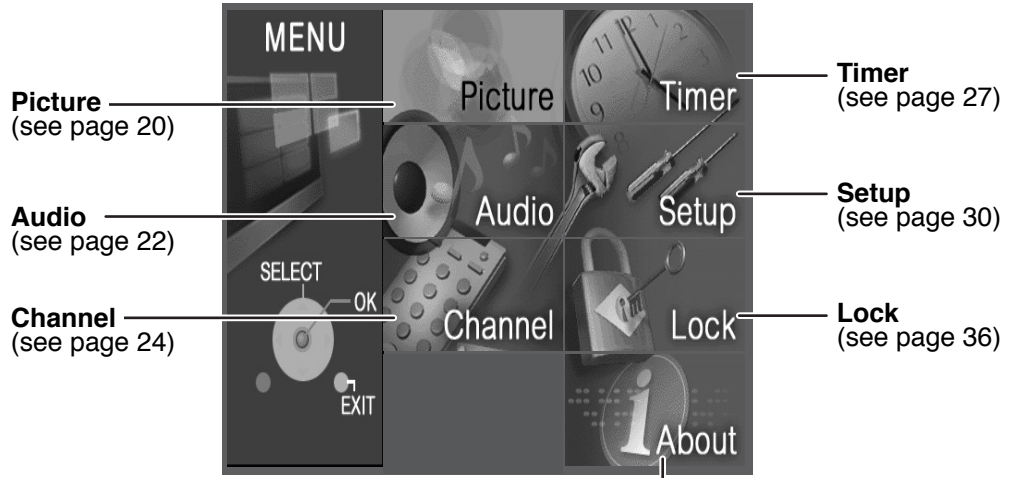
Menu Navigation



1



Press to display the Main menu.



Picture
(see page 20)

Audio
(see page 22)

Channel
(see page 24)

Timer
(see page 27)

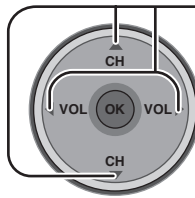
Setup
(see page 30)

Lock
(see page 36)

About

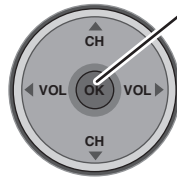
The About screen displays assorted information about the TV. Please have this information when calling Customer Care Center.

2



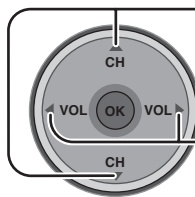
Press to select the menu.

3



Press to enter the sub-menu field.

4



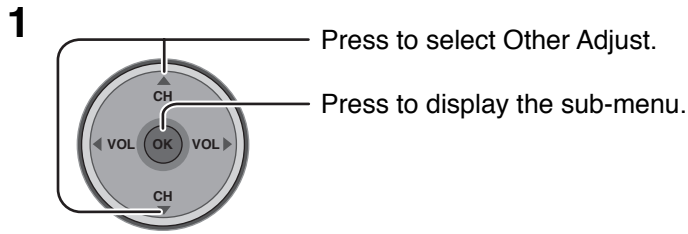
Press to select the sub-menu.

Press to adjust the sub-menu.

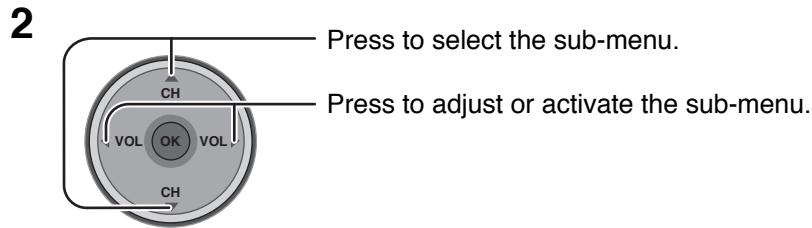
ex. Picture menu

Picture	
Pic Mode	Vivid
Back Light	63
Color	31
Tint	31
Brightness	31
Picture	63
Sharpness	42
Normal	Set
Other Adjust	

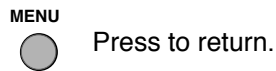
To select Other Adjust sub-menu



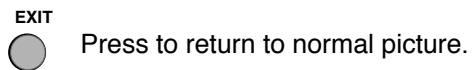
Other Adjust	
Color Temp	Cool
AI Picture	On
Color Enhance	On
Video NR	Off
3D Y/C Filter	On
Color Matrix	SD
MPEG NR	Off
Advanced Adjust	



To return to the previous menu



To exit the menu

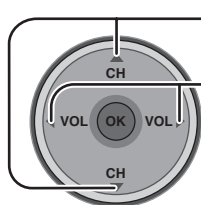


Picture

Picture	
Pic Mode	Vivid
Back Light	63
Color	31
Tint	31
Brightness	31
Picture	63
Sharpness	42
Normal	Set
Other Adjust	

Pic Mode

Lets you choose the pre-set picture mode that best suits the program you are viewing. This feature also affects Color Temp setting (see page 21).



Press to select Pic Mode.

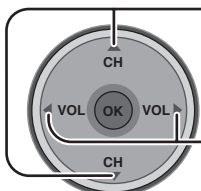
Press to select the picture mode.

- 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.
- Custom : You can customize the picture settings to suit your preference. (see page 21, Advanced Adjust)
- Auto : Automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimize contrast.

Notes:

- Each mode has its own picture settings (Back Light, Color, Tint, Brightness, Picture and Sharpness).
- The Custom setting is stored for TV, VIDEO1, VIDEO2, VIDEO3, COMPONENT1, COMPONENT2, HDMI and Card operations mode individually.

Back Light / Color / Tint / Brightness / Picture / Sharpness / Normal

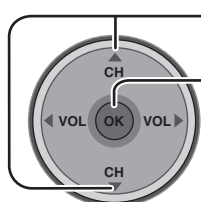


Press to select the sub-menu.

Press to adjust the sub-menu.

Item	Explanations
Back Light	Adjusts luminance of the back light.
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

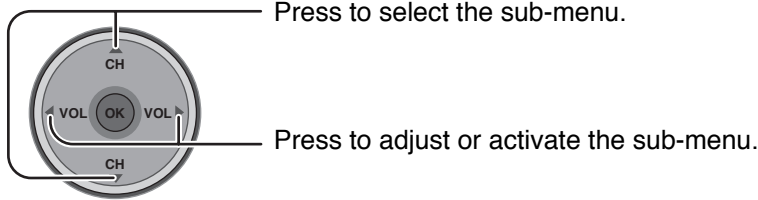


Press to select Other Adjust.

Press to display the sub-menu.

Other Adjust	
Color Temp	Cool
AI Picture	On
Color Enhance	On
Video NR	Off
3D Y/C Filter	On
Color Matrix	SD
MPEG NR	Off
Advanced Adjust	

■ Color Temp (temperature) / AI Picture / Color Enhance / Video NR / 3D Y/C Filter / MPEG NR

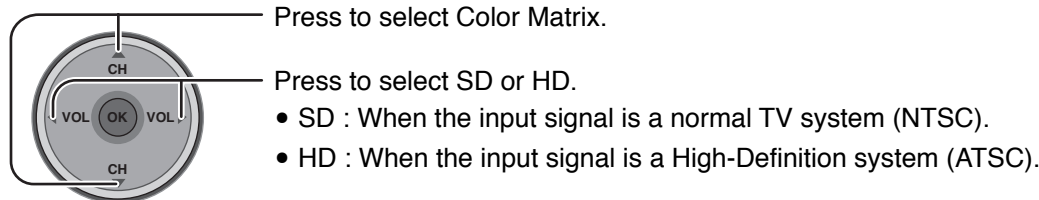


Item	Explanations
Color Temp (temperature)	To increase or decrease Warm (red) and Cool (blue) colors to suit personal preferences.
AI Picture	Displays black and white more vividly when turned On.
Color Enhance	To increase the color reproduction range with natural color gradation and highly delicate hues.
Video NR	Reduces noise, commonly called snow. Leave off when receiving a strong signal.
3D Y/C Filter	Minimizes noise and cross-color in the picture.
MPEG NR	Noise unique to DVD, STB, etc. will be reduced.

■ Color Matrix

Displays 480p input signals in natural color from digital video sources 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).

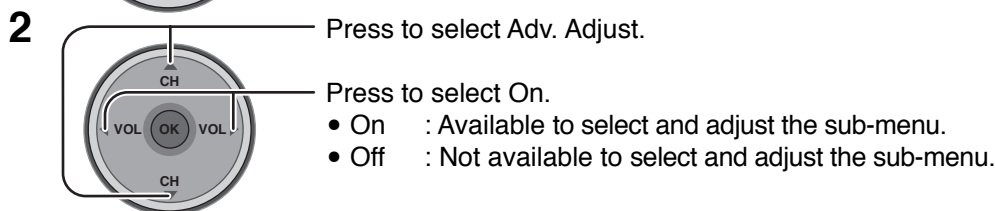
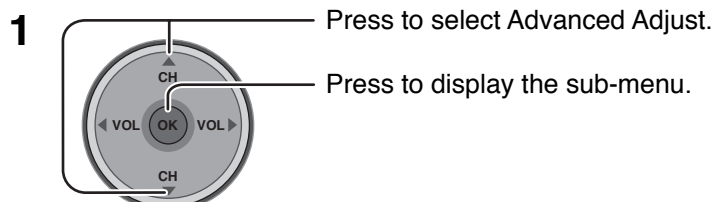


Notes:

- 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.

■ Advanced Adjust

This feature is available only when you selected Custom in Pic Mode.



Advanced Adjust	
Adv. Adjust	On
Edge Trans.	Mid
Gray Emph.	Mid
Gamma Adj.	Mid
Black Extension	8
White Char Corr	8
Normal	Set

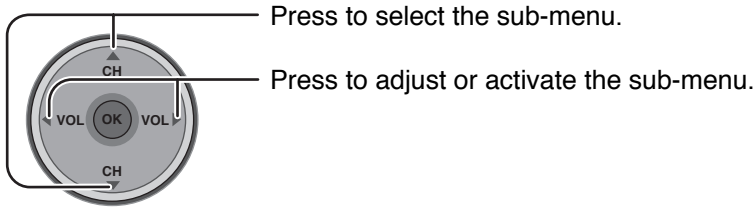
Item	Explanations
Edge Trans.	Improves edges in the background to reduce overshooting and improve the sense of depth.
Gray Emph.	Emphasizes the sharpness in density of many color differences.
Gamma Adj.	Increases the brightness of the center ranges to improve detail and contrast in dark scenes.
Black Extension	Contrast level will be improved.
White Char Corr	It makes white characters brighter.
Normal	Resets all advanced adjustments to factory default setting.

Menu Navigation

Audio

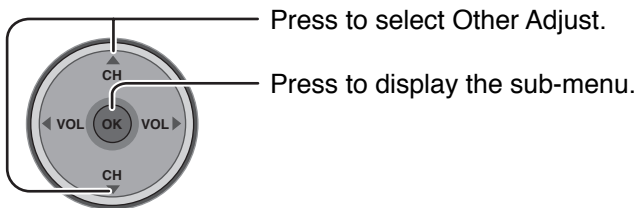
Audio	
Bass	7
Treble	7
Balance	31
Normal	Set
Other Adjust	

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.

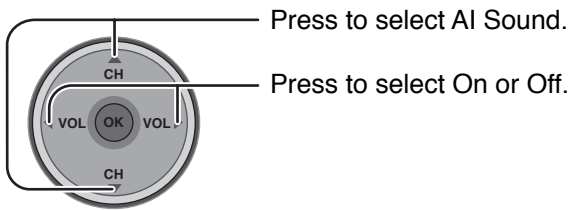
Other Adjust



Other Adjust	
AI Sound	On
Surround	Off
Equalizer	On
HDMI In	Auto

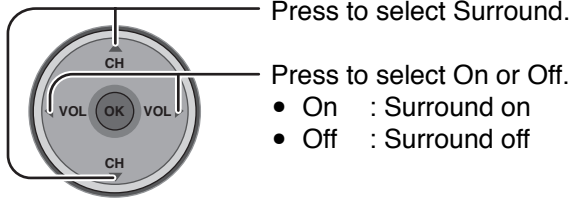
■ AI Sound

Equalize overall volume level across all channels.



■ Surround

Enhances audio response when listening to stereo.



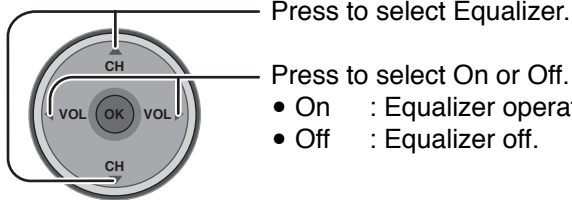
Press to select Surround.

Press to select On or Off.

- On : Surround on
- Off : Surround off

■ Equalizer

This feature makes voice sound clear.



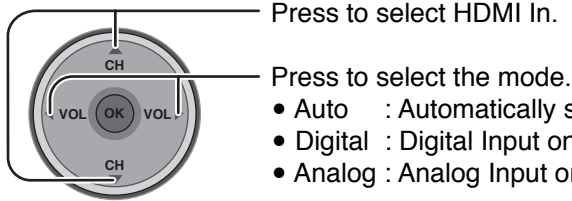
Press to select Equalizer.

Press to select On or Off.

- On : Equalizer operates normally.
- Off : Equalizer off.

■ HDMI In

When using HDMI (see page 13), this feature will let you switch between Analog Input and Digital Input.



Press to select HDMI In.

Press to select the mode.

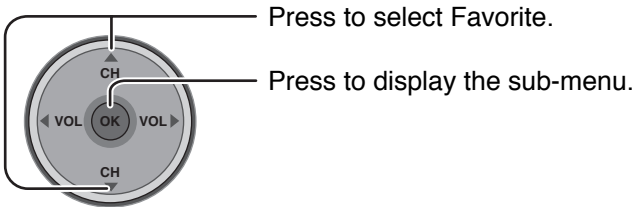
- Auto : Automatically selects Analog / Digital signal.
- Digital : Digital Input only.
- Analog : Analog Input only.

Channel



Favorite

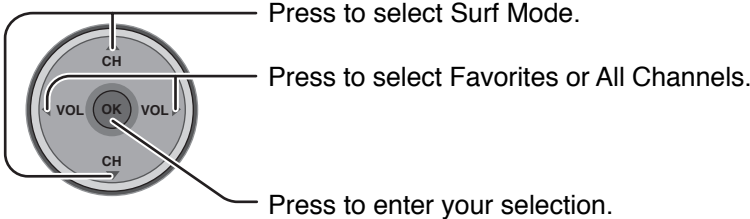
Allows you to create a Favorite channel list from Antenna (A) or Antenna (B).



Press to select Favorite.

Press to display the sub-menu.

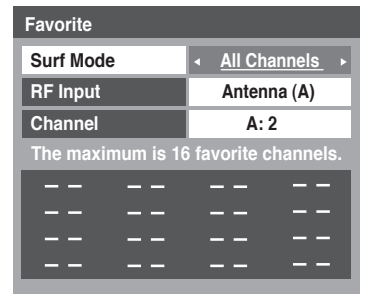
■ Surf Mode



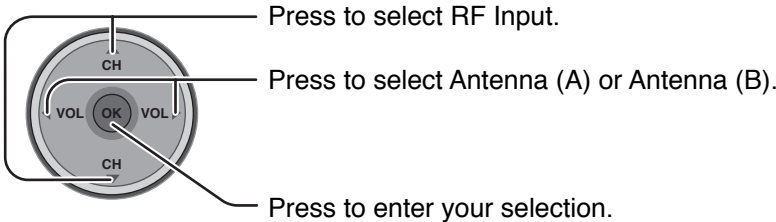
Press to select Surf Mode.

Press to select Favorites or All Channels.

Press to enter your selection.



■ RF Input

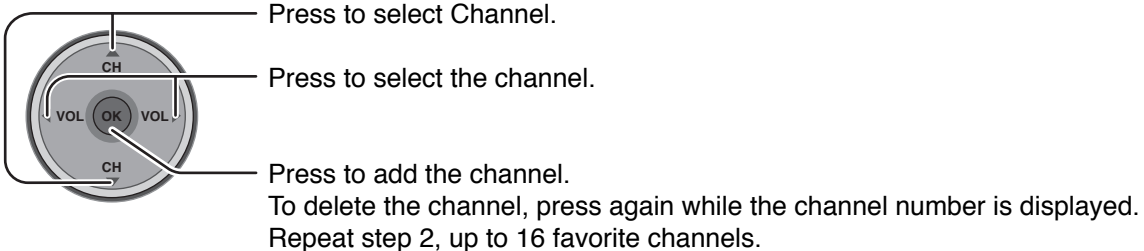


Press to select RF Input.

Press to select Antenna (A) or Antenna (B).

Press to enter your selection.

■ Channel



Press to select Channel.

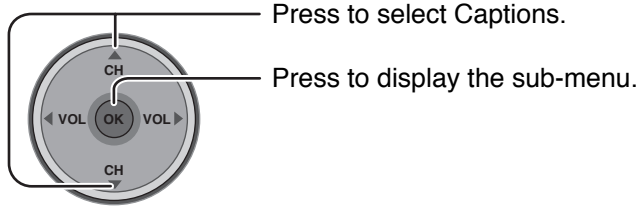
Press to select the channel.

Press to add the channel.

To delete the channel, press again while the channel number is displayed.
Repeat step 2, up to 16 favorite channels.

Captions

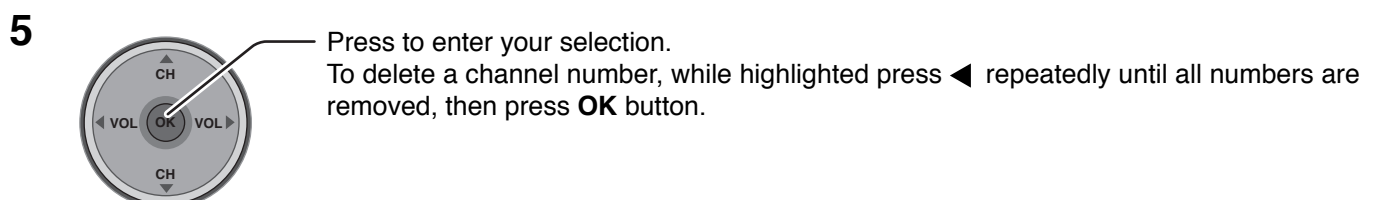
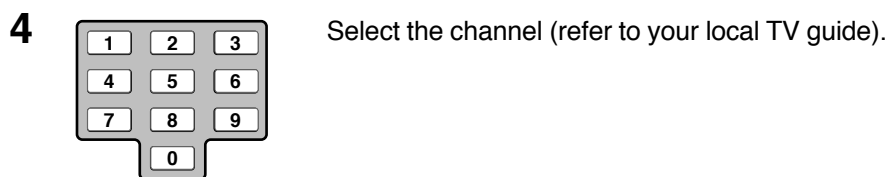
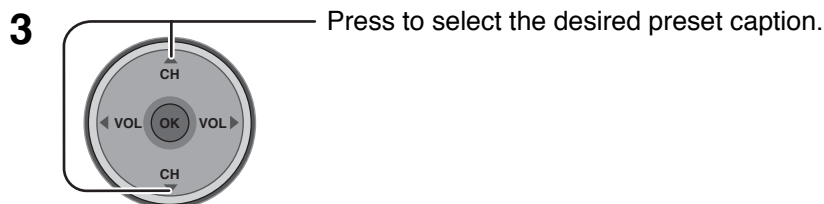
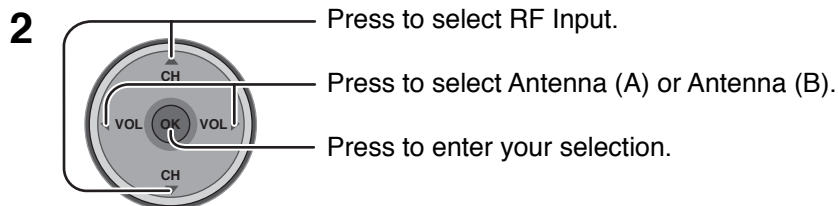
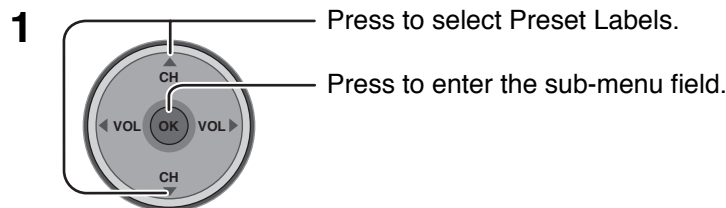
To enter preset and manual labels to desired stations. Also to enter input labels to video inputs.



■ 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	



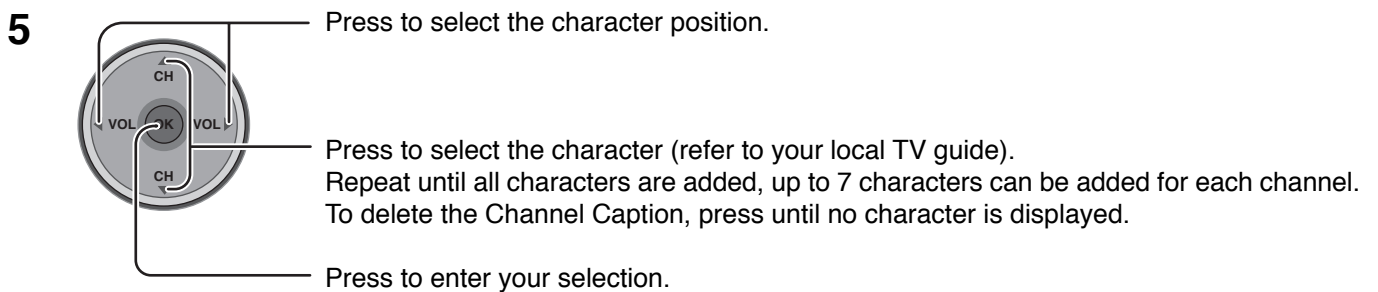
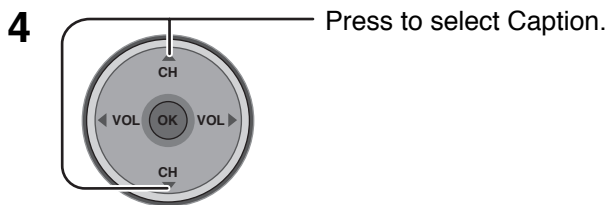
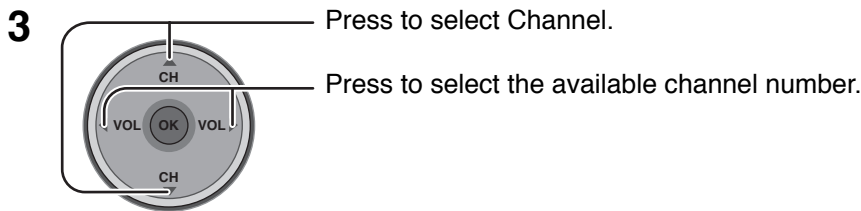
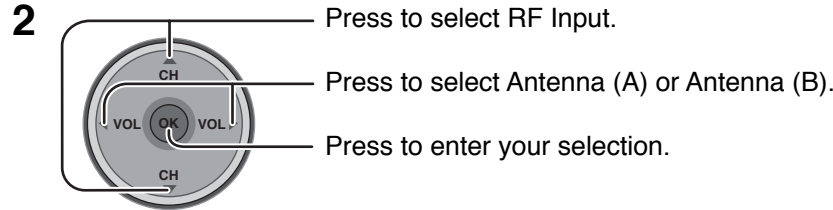
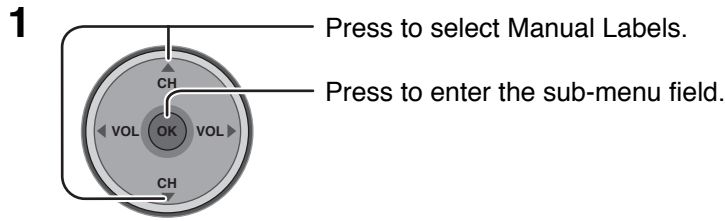
Note:
Only an input with signal will be selectable.

Menu Navigation

Manual Labels

To enter numbers and captions manually.

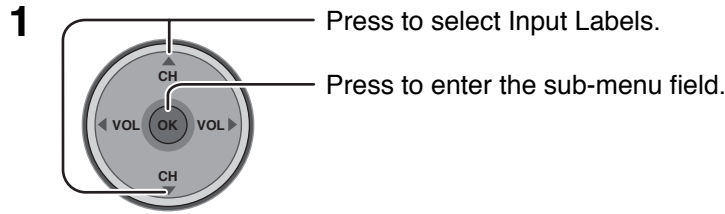
Captions		
Preset Labels	RF Input	Antenna (A)
Manual Labels	Channel	A: 2
Input Labels	Caption	



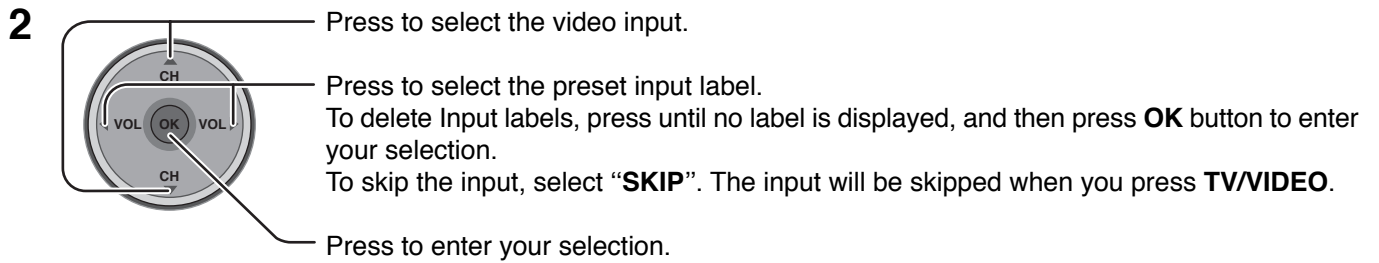
Note:
Only an input with signal will be selectable.

Input Labels

To label video input connections for on-screen display.



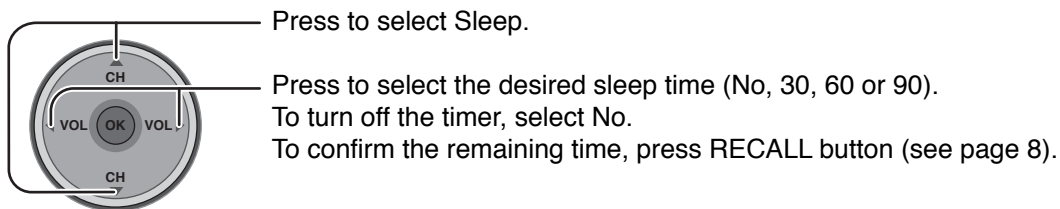
Captions		
Preset Labels	Component 1	
Manual Labels	Component 2	
Input Labels	HDMI	
	Video 1	
	Video 2	
	Video 3	



Timer

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

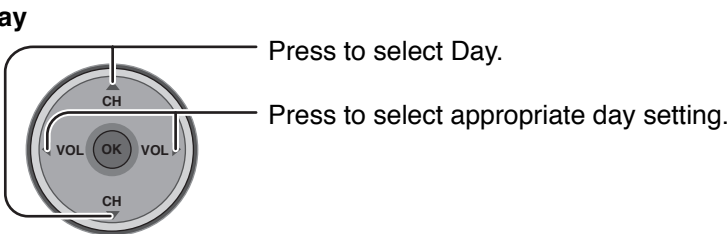
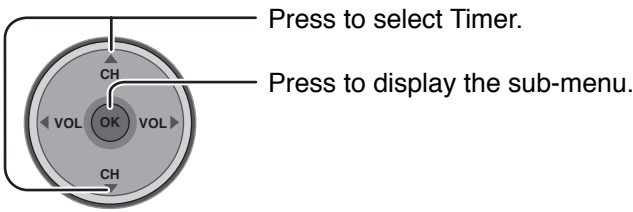
Sleep



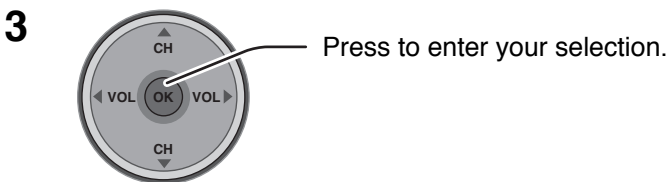
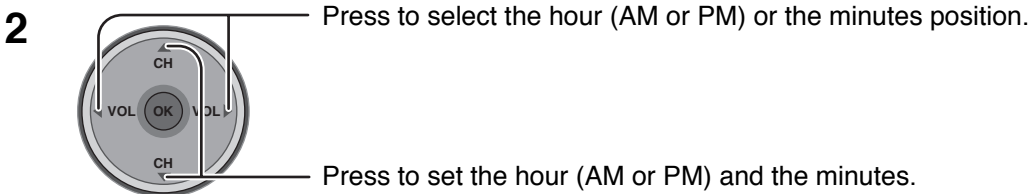
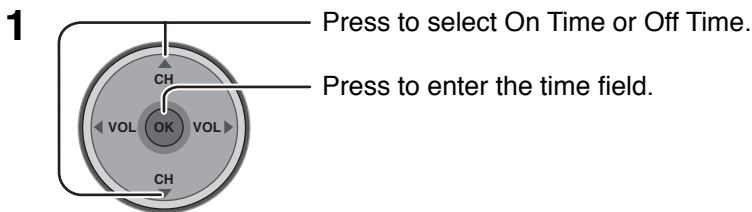
Menu Navigation

Timer

Set the time in Clock Set (see page 29) before setting Timer.
 Select timer to turn the TV on and off at selected times and on selected days.



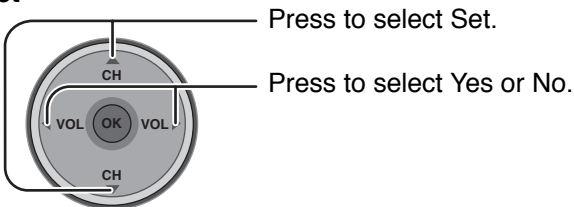
■ On Time / Off Time



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 timer will be deactivated and the TV will be in standby mode even after power is restored.

■ Set



Timer	
Sleep	No
Timer	
Clock Set	12 : 01 AM
Day Set	MON

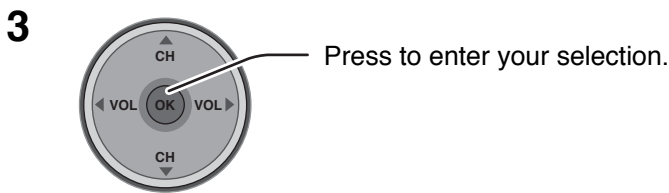
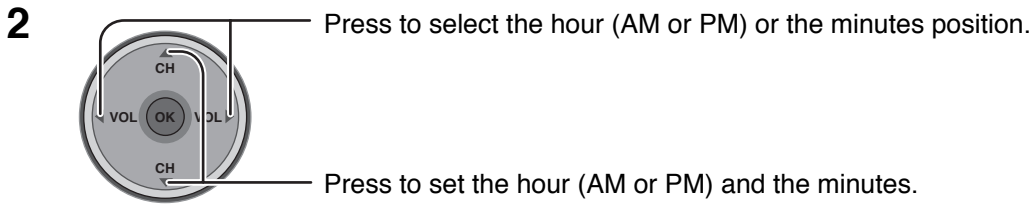
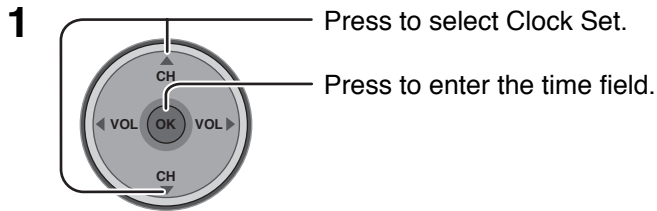


Timer	
Day	MON-FRI
On Time	7 : 10 AM
Off Time	8 : 10 PM
Set	Yes

To activate the Timer

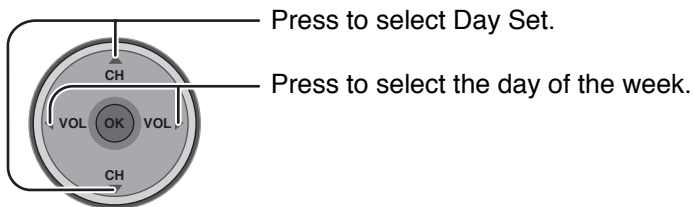
Select the channel and turn off the TV.

Clock Set

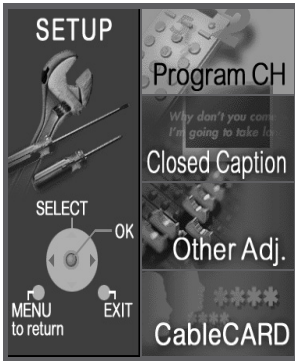


Day Set

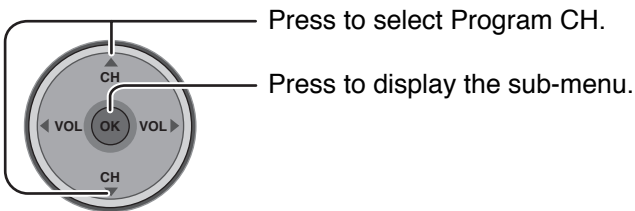
Set the day of the week.



Setup



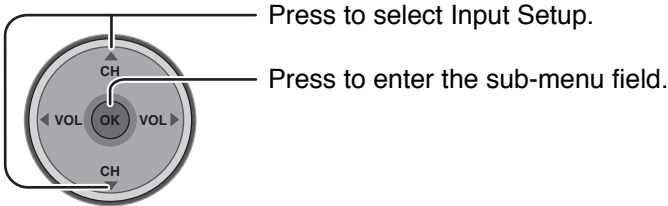
Program CH



■ Input Setup

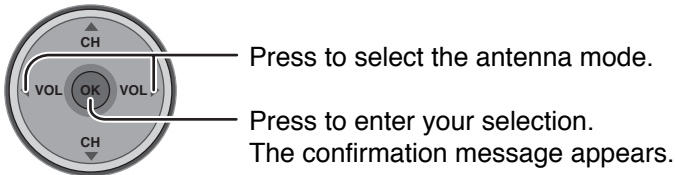
Lets you specify the antenna mode (Cable only, Cable/Antenna or Antenna only).

1

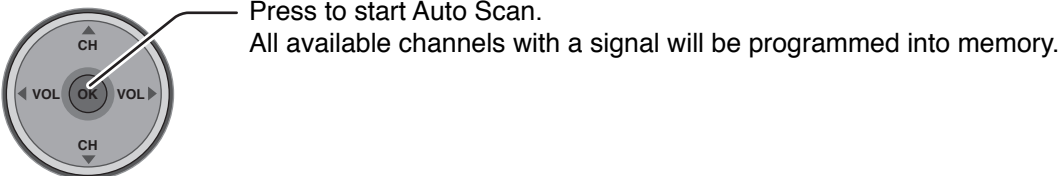


Program Channel		
Input Setup	Setting	Cable/Antenna
Auto Scan		
Manual Program		
Signal Meter		
Language		

2



3

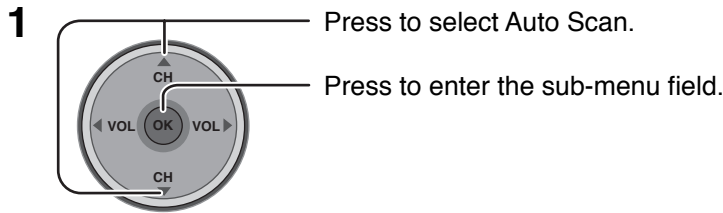


Notes:

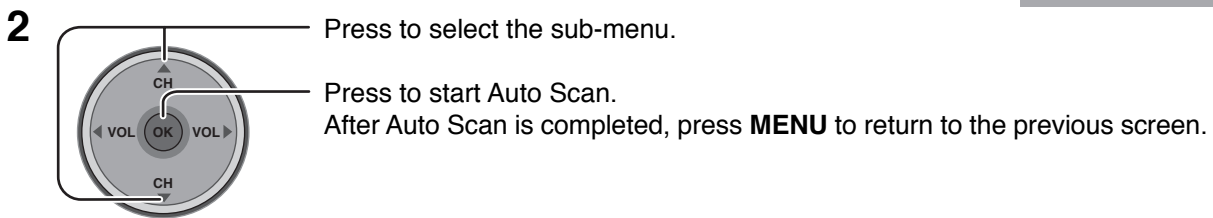
- Auto Scan is necessary when you select the input signal for the first time or whenever you change the antenna configuration.
- If CableCARD™ is not inserted, the Auto Scan performs Scan All.
- When CableCARD™ is inserted and Cable only is selected, Auto Scan will be skipped.
- When CableCARD™ is inserted 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.

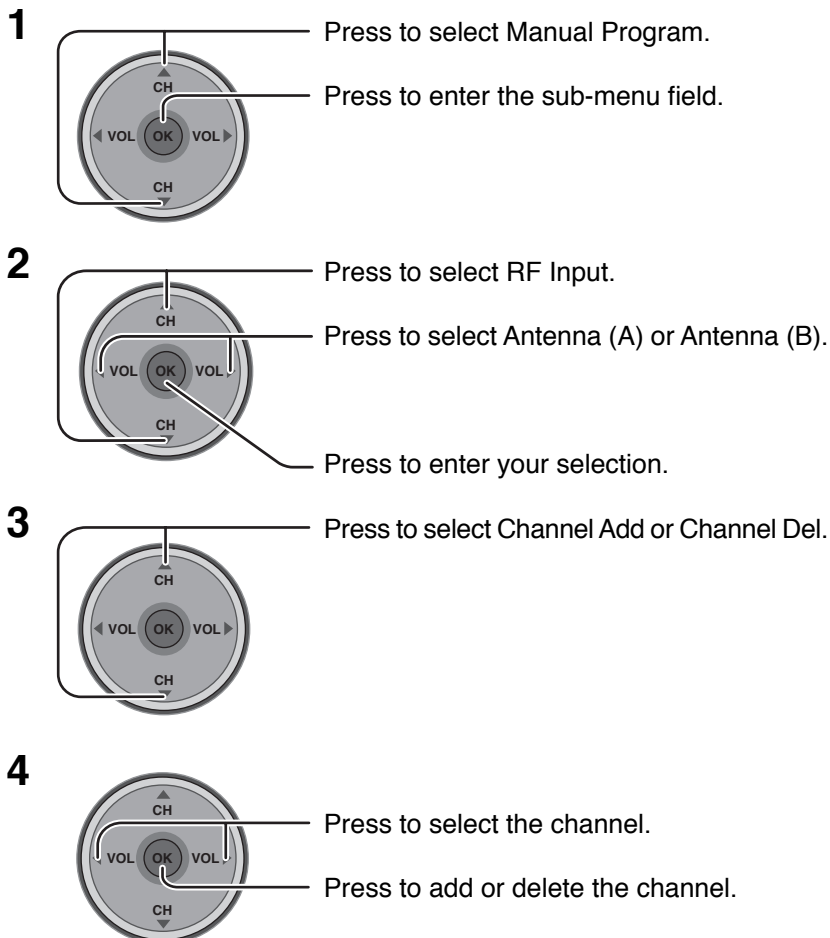


Program Channel	
Input Setup	Scan All
Auto Scan	Antenna (A) Analog
Manual Program	Antenna (A) Analog & Digital
Signal Meter	Antenna (B) Analog
Language	Antenna (B) Analog & Digital



Manual Program

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



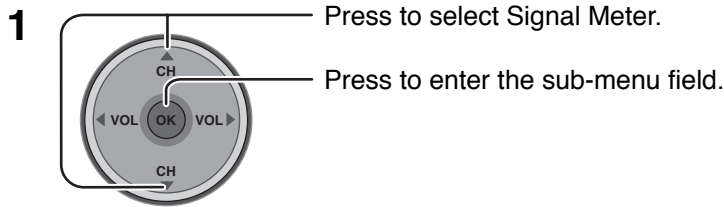
Program Channel		
Input Setup	RF Input	Antenna (A)
Auto Scan	Channel Add	A: 1
Manual Program	Channel Del	A: 2
Signal Meter		
Language		

Menu Navigation

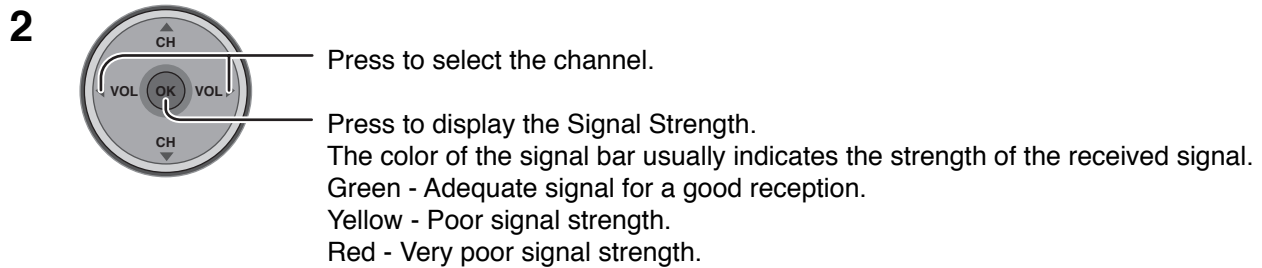
■ Signal Meter

(For digital channels only)

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

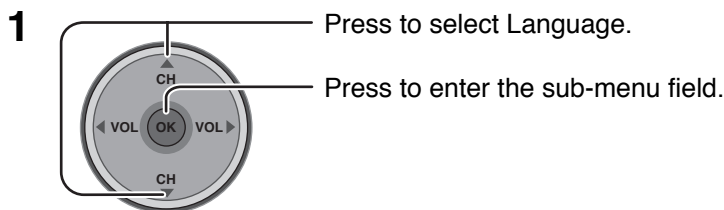


Program Channel		
Input Setup	RF Input	Antenna (B)
Auto Scan	Channel	◀ B: 26-3 ▶
Manual Program		
Signal Meter		
Language	Signal Strength : 96%	
	Peak : 96%	

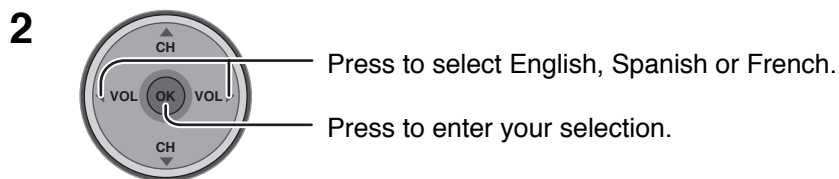


■ Language

Select the On screen Display language.

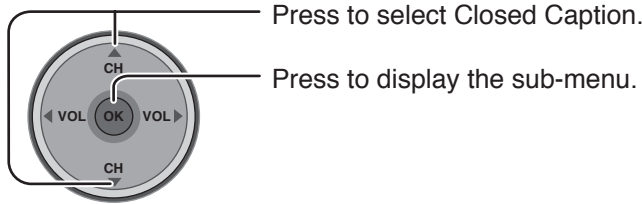


Program Channel		
Input Setup	Setting	English
Auto Scan		
Manual Program		
Signal Meter		
Language		

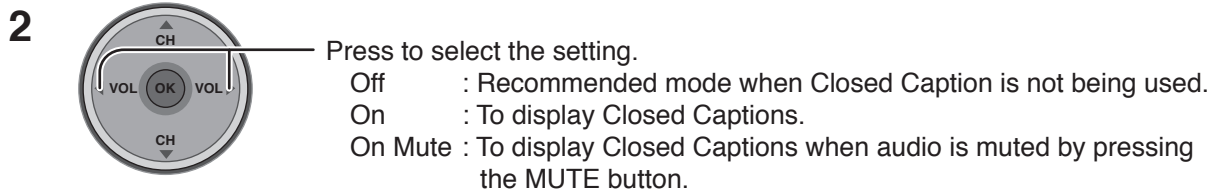
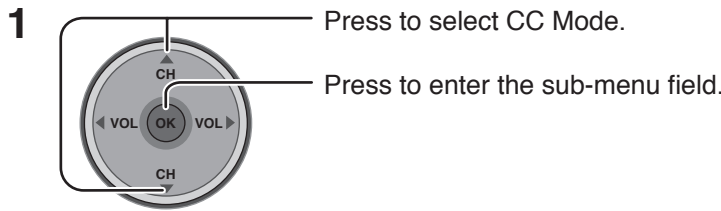


Closed Caption

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



Closed Caption		
CC Mode	Setting	Off
Analog		
Digital		

Notes:

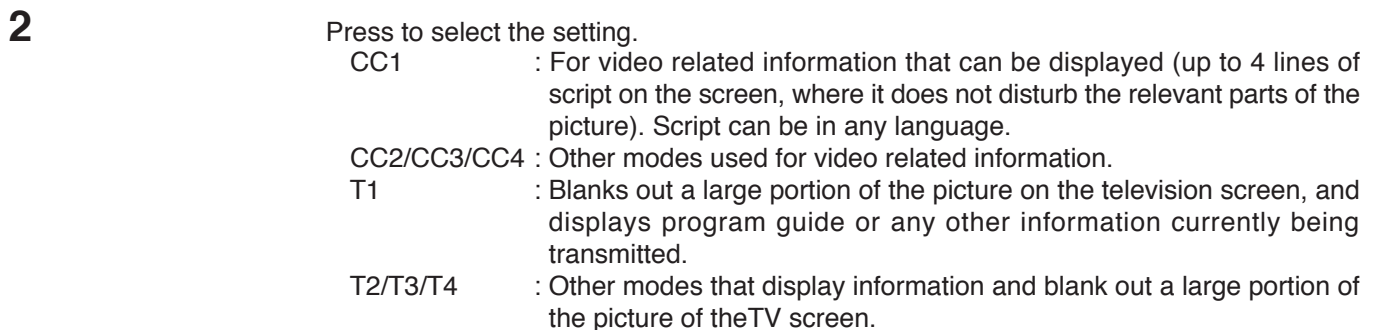
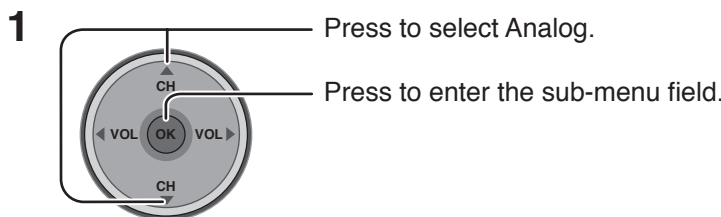
The closed caption is not displayed when you use HDMI connection.

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 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.



Closed Caption		
CC Mode	Service	CC1
Analog		
Digital		

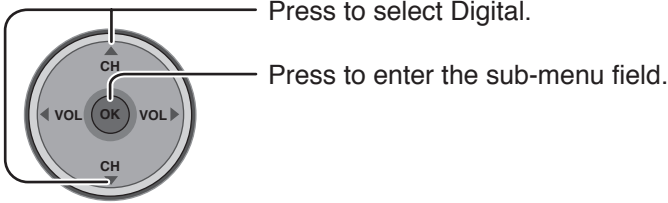
Press to enter your selection.

Menu Navigation

■ Digital

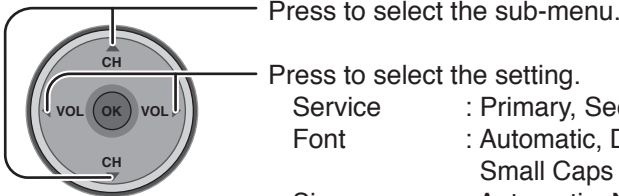
The Digital Closed Caption menu lets you configure the way you choose to view the digital captioning.

1



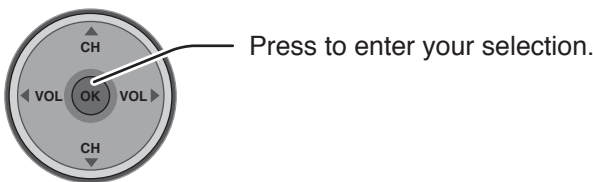
Closed Caption		
CC Mode	Service	Primary
Analog	Font	Automatic
Digital	Size	Automatic
	Style	Automatic
	Colors	
	Reset	
Sample CC Text		

2

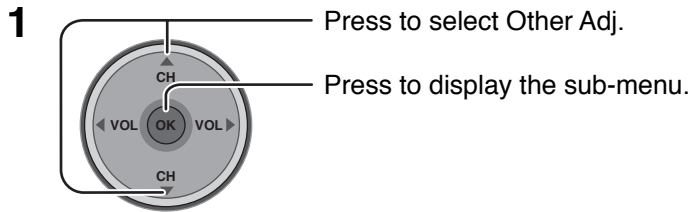


- Service : Primary, Secondary, Service 3, Service 4, Service 5, Service 6
- Font : Automatic, Default, Mono-serif, Pro-serif, Mono, Prop, Casual, Cursive, Small Caps
- Size : Automatic, Normal, Small, Large
- Style : Automatic, None, Raised, Depressed, Uniform, Drop Shadow
- Colors : Foreground The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

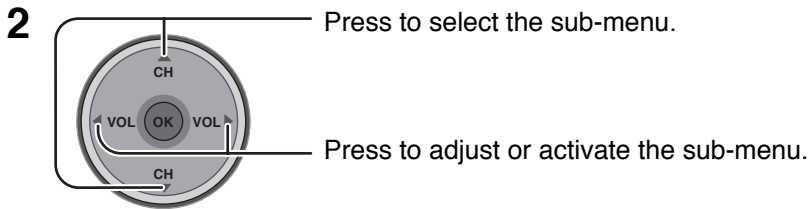
3



Other Adjust



Other Adjust	
Auto Power On	Off
Power Save	Std.
Zoom Adjust	



■ 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.

■ Power Save (Std. or Saving)

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

■ Zoom Adjust

Adjust the Zoom position.

It works when Aspect mode is Zoom.

- Size : Adjust the vertical size.
- V-Position : Adjust the vertical position.

Zoom Adjust	
Size	4
V-Position	0
Normal	Set

CableCARD™

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

Notes:

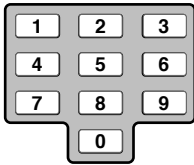
- If CableCARD™ is not inserted and you access the CableCARD Info, the message “Cable Module Not Present” appears.
- To receive the features offered by your cable company, you may have to subscribe to those services. Contact your cable company regarding availability of the CableCARD™. The CableCARD™ is required to 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

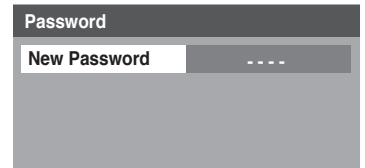
Lock

When entering Lock menu for the first time, New Password setting screen is displayed.

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

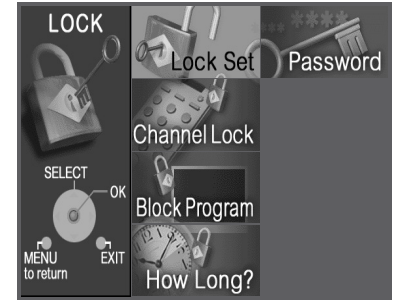


Enter a 4-digit password.



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



From the second time, enter the Password you set to display the sub-menu.

Blocking messages

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

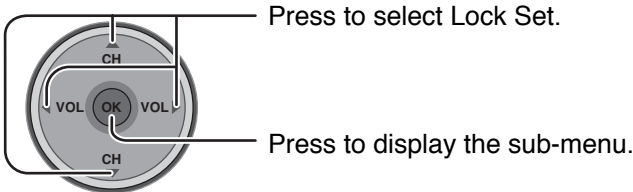
Note:

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

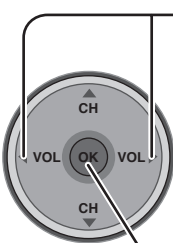
Message	Possible cause
Video Inputs Locked.	Game Lock is selected.
Channel Locked. Press OK to enter password.	Channel Lock is selected.
Rating Limit Exceeded. Press OK to enter password.	The rating level is exceeded.

Lock Set

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



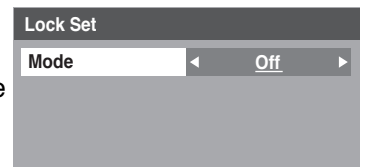
Mode



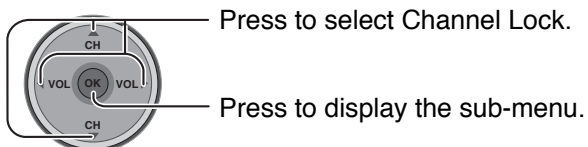
Press to select the setting.

- 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.

Press to enter your selection.

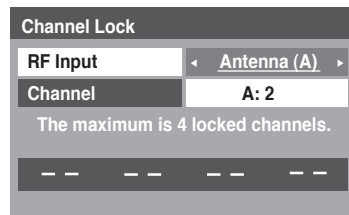
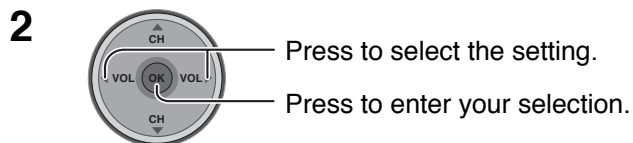
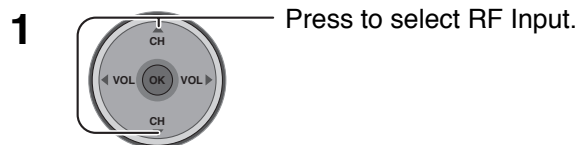


Channel Lock



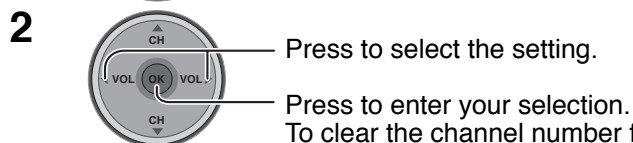
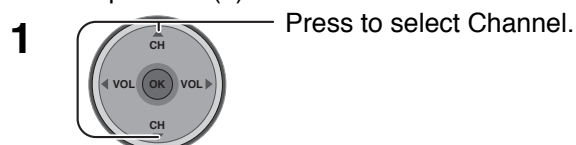
■ RF Input

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



■ Channel

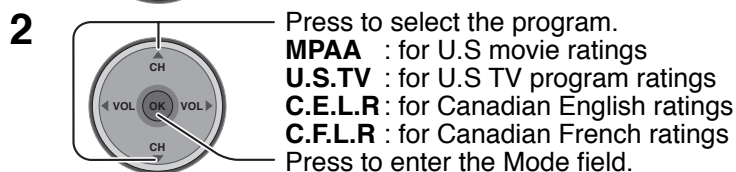
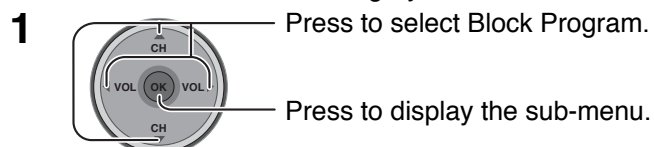
Select up to four (4) channels to be blocked out. These channels will be blocked out regardless of the program rating.



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

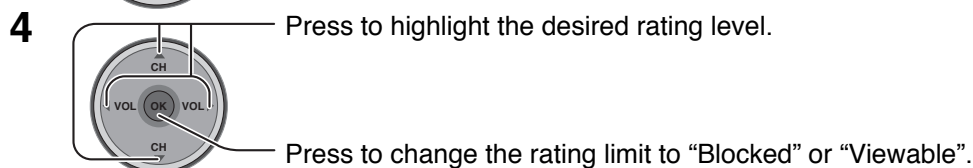
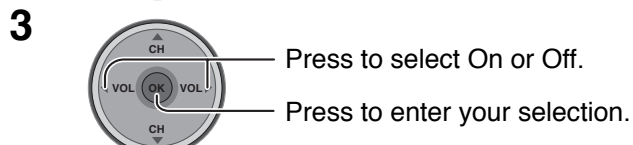
Block Program

This television incorporates V-CHIP technology to block the viewing of movies and television programs according to the rating category. There are four (4) 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.



MPAA : for U.S movie ratings
U.S.TV : for U.S TV program ratings
C.E.L.R : for Canadian English ratings
C.F.L.R : for Canadian French ratings

MPAA	Mode	Off
U.S.TV	NR	Viewable
C.E.L.R	G	Viewable
C.F.L.R	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

The TV Parental Guidelines has 7 levels of age-based ratings that can be selected. These 7 levels are split into 2 age-based groups:

Youth Age-based Ratings and Guidance Age-based Ratings. Some of these age-based ratings can also have content-based ratings, denoted as D (Dialogue), L (Language), S (Sex) and V (Violence).

TV-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.

CANADIAN ENGLISH RATINGS CHART

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

CANADIAN FRENCH RATINGS CHART

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

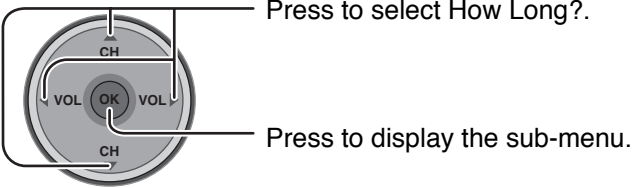
Customer Caution

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:"

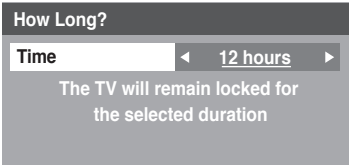
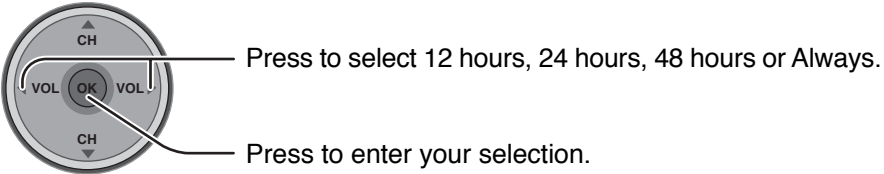
- Emergency Bulletins (Such as EAS messages, weather warnings and others)
- Locally originated programming • News • Political • Public Service Announcements • Religious • Sports
- Weather

How Long?

The Lock settings remain for the selected duration.



■ Time

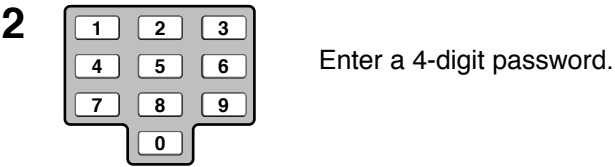
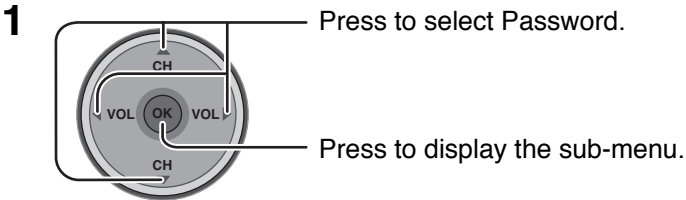


Note:

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

Password

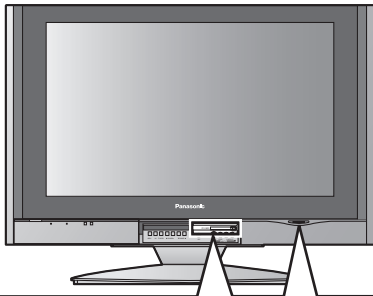
You can change the password.



Card operations

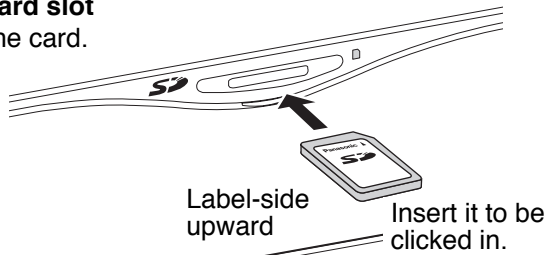
This function lets you display Still images (JPEG) or Animated pictures (MPEG4) recorded by this unit or a digital camera on a memory card when it is inserted in the proper card slot.

Inserting and removing a card

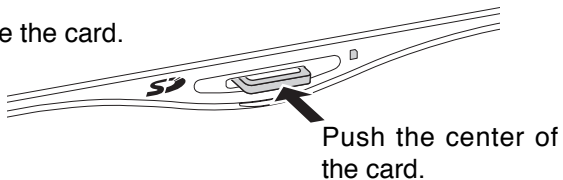


SD card slot

Insert the card.



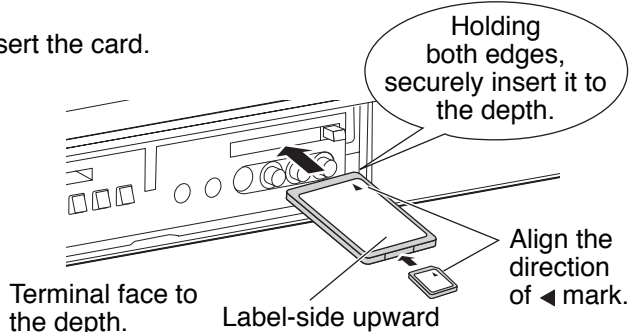
Remove the card.



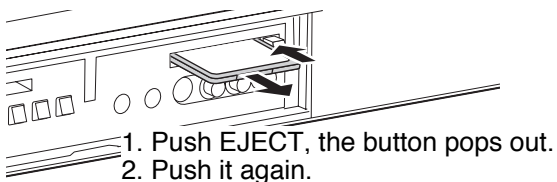
PC card slot

Turn the TV off before inserting or removing a PC card.

Insert the card.



Remove the card.



If the eject button does not pop out

Push in PC card again, and then push again the eject button.

Note:

If PC card adapter is used, remove it together with the memory card.

Compatible card type and card size

SD card slot

- SD Card (1GB)
- Multi Media Card (128MB)
- miniSD Card* (128MB)

PC card slot

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

The cards require a standard PC card adapter.
(Some PC card adapters will not be compatible.)

* miniSD Card requires miniSD adapter.

- This function is not compatible with card type hard disk (Micro Drive, Mobile type hard disk, etc).
- Memory cards are not supplied with this television.
- When both SD card and PC card are inserted in the slot, SD card has the priority.

Card Data Protection

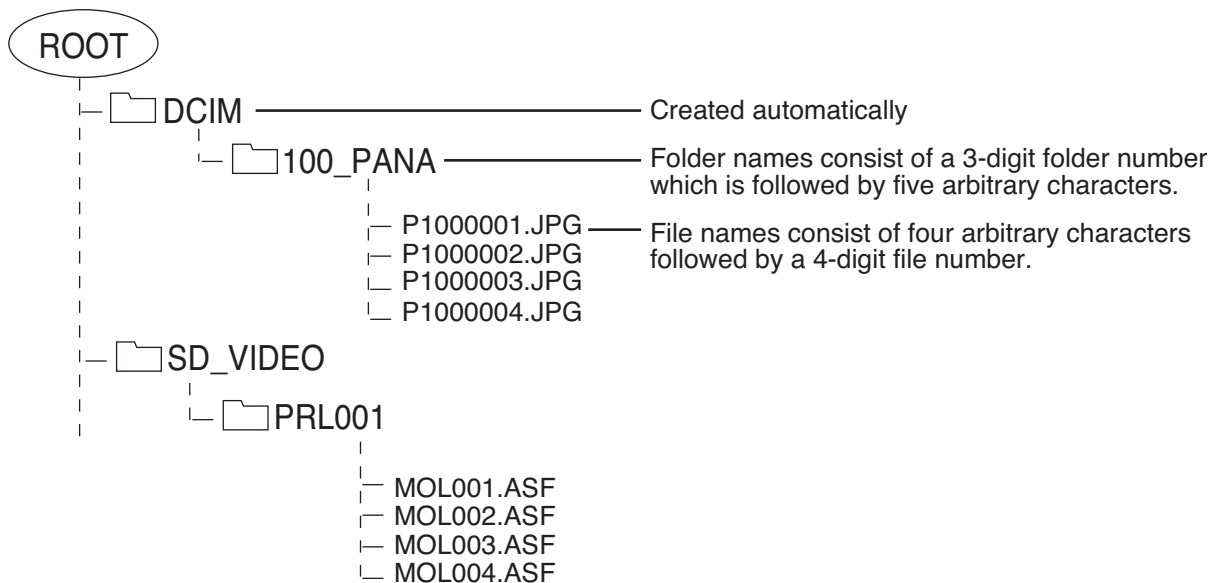
- Do not remove the card while the unit is accessing the information. Such action may damage the memory card or the unit itself.
- The blue LED lights during recording.
- Before inserting or removing the PC card, make sure that the TV is turned Off. Otherwise, it may damage the unit.
- Do not touch the terminals on the back of the SD card/PC card.
- Always insert a card in the correct direction. Failure to do so may result in damage to the card and this unit.
- Do not subject the card to excessive pressure or strong impacts.
- Electrical interference, electrostatic discharges and malfunctions of the unit or card may all result in data loss or damage to the card.
- Stored data should be periodically backed up as a protection against data corruption, data loss or device malfunction. Please note that our company shall not accept any liability for damage or loss of stored data.
- **WARNING: As with a small object, SD card can be swallowed by young children. Do not allow children to handle SD card. Please remove SD card immediately after use.**

Folders and Files

- Picture Menu 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).
- Movie Menu can only show animated pictures recorded by this unit or a digital camera with MPEG4 standard ASF file.
- 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 files that can be displayed: **65,535**.
- **Picture resolution:** Compatible in the range 8 x 8 - 5,120 x 3,840
- 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.
- This function 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 image size.
- The number of pixels for movies is 320 x 240 (QVGA) or 176 x 144 (QCIF).
- When the number of files exceeds 65,535, no further video recording is possible.
- The audio format used is G.726 (32 Kbps, 8 kHz sampling frequency, monaural).

Example folder structure

When the Card file hierarchy is displayed on the PC as shown below.



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.

Card operations

SD Menu



- 1 Insert the card into the card slot (see page 40).
- 2 Press to display the SD Menu.

SD Menu
SD Record
Movie Menu
Picture Menu
Record Setting
Format
Memory Left

To return to the SD Menu.

Press to return to the SD Menu.

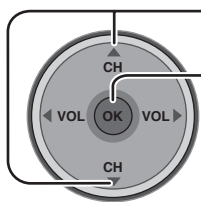
To exit Card operation

EXIT Press to return to normal picture.

OR When the SD Menu is displayed, press to return to normal picture.

SD Record

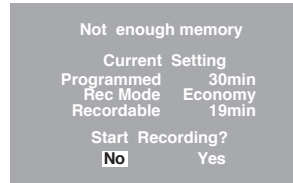
The present channel recording will start. Please set up Record Setting before recording (see page 45).



Press to select SD Record.

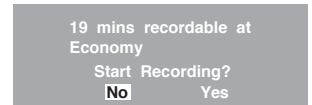
Press to start recording. If the remaining time is not enough or Rec Time in Record Setting is set to Not Set, the message will appear.

Remaining time is not enough



Rec Time is set to Not Set

OR



Yes : Start recording
No : Cancel

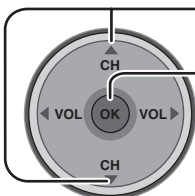
Notes:

- Picture or Audio adjustment is possible by pressing MENU button during SD Record.
- Video recording is possible on the analog channels only. However, it is not possible on restricted channels.
- To check the video recording information, press the RECALL button.
- If the SLEEP timer is activated during video recording, the recording will stop and the power will be turned off regardless of the Rec Time setting.
- When a program's Rating setting has been exceeded during video recording, the recording will stop. Video recording resumes as soon as the Rating is released. (A new file is created when recording is resumed.) Video recording does not resume if the channel has been switched.
- SD video recording may not be fully compatible or playable in some PC software or PDA devices.

To stop the recording

1 Press to display the SD Menu.

2 Press to select Stop Recording.



Press to stop recording.

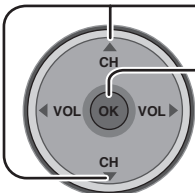
SD Menu
Stop Recording
Movie Menu
Picture Menu
Record Setting
Format
Memory Left

Notes:

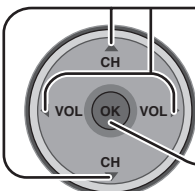
- If the channel is changed during Recording, record channel does not change.
- When two channels are shown on the same screen as split frames, the Main picture is the one that is recorded. The channel can be changed for the Sub picture.
- The power button, SAP button and tuning buttons for the main picture do not work while video recording is in progress.

Movie Menu

The animated pictures recorded by this unit or by a digital camera will be played back. This function is supported by SD cards only

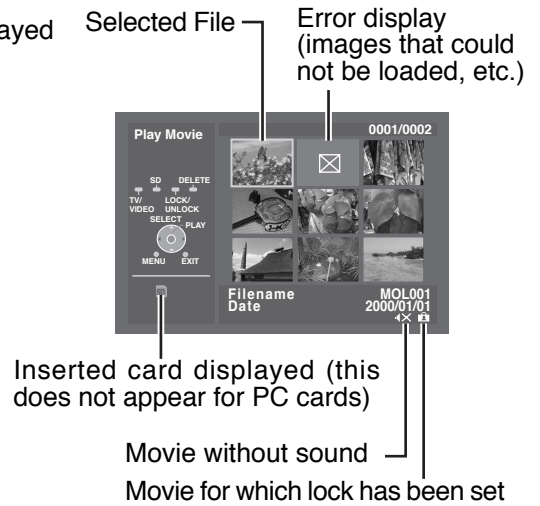
- 

Press to select Movie Menu.

Press to display the thumbnail screen.
- 

Select the thumbnail image.

Press to start the animated picture.

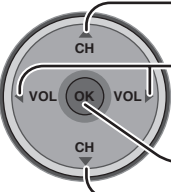


Notes:

- Picture, Audio or Set Up adjustment is possible by pressing MENU button during Movie Menu.
- "Date" shows the date on which the video recording was made by the digital camera. Its format is 2000/01/01 when video recordings are made using this unit.

During the playback


When the operation guide is not displayed, press the RECALL button to display it.

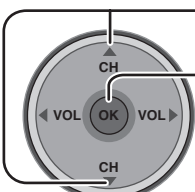
- 
- (||) Press to pause.
 - (◀◀, ▶▶) Press to skip the picture. Press and hold to REW / FF.
 - (▶) Press to playback.
 - (■) Press to stop.

Notes:

- When the operation guide is not displayed, the volume can be adjusted using the VOL buttons.
- The operation guide can be displayed or cleared by pressing the RECALL button.
- During movie play, no signals are output from the monitor output and digital audio output terminals.
- During movie play, the screen's Aspect ratio cannot be switched.

Set Up

- 

Press to display MENU during Movie Menu.
- 

Press to select Set Up.

Press to display the sub-menu.

MENU
Picture
Audio
Set Up

■ Frame Size (Large or Normal)

Select the Frame size of the playback picture.

■ Repeat (No, One File or All)

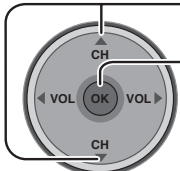
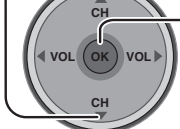
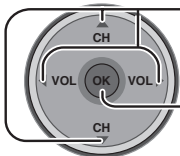

Select the repeat mode.

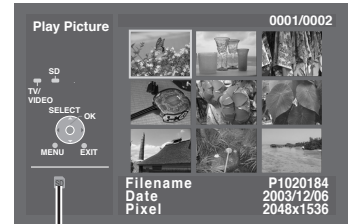
Set Up	
Frame Size	Normal
Repeat	No

Card operations

Picture Menu

The still images recorded by the digital camera will be displayed. This function supports both SD cards and PC cards.

- 1  Press to select Picture Menu.
 Press to display the thumbnail screen.
- 2  Select the thumbnail image.
 Press to display the image.



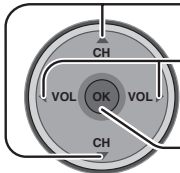
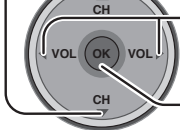

Inserted card displayed (this does not appear for a card which is not selected)

Notes:


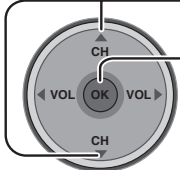
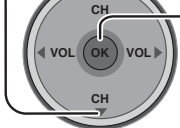
- Picture or Set Up adjustment is possible by pressing MENU button during Picture Menu.
- The aspect of the image can be changed by pressing ASPECT button during single mode and Slideshow.

Rotate / Skip

Allows you to rotate the image during single mode. When the operation guide is not displayed, press the RECALL button to display it.

- 
- Press to skip to the next or previous image.
-
- 
- Press to rotate the picture ninety degrees.
-
- 
- Press to display the thumbnail screen.

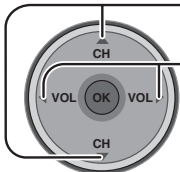
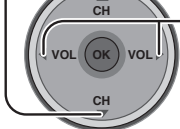
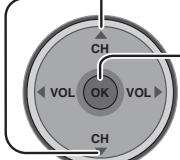
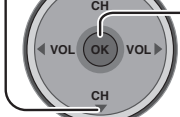
Set Up

- 1  Press to display MENU during Picture Menu.
- 2  Press to select Set Up.
 Press to display the sub-menu.

Set Up	
Slideshow	
Interval	5sec
Repeat	Off
Card Setting	SD

■ Slideshow

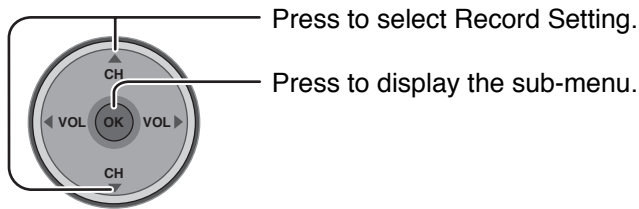
Select the settings of Interval and Repeat before starting the Slideshow.

- 1  Press to select Interval or Repeat.
 Press to select the settings.
 - Interval : Allows you to change the length of time that a slide is being displayed on screen. (5sec, 10sec, 15sec, 30sec, 60sec, 90sec, 120sec)
 - Repeat : On or Off
- 2  Press to select Slideshow.
 Press to start Slideshow. Press again to stop.

■ Card Setting

Select either SD or PC when both cards are inserted in the slots. (Not selected when one card is inserted.)

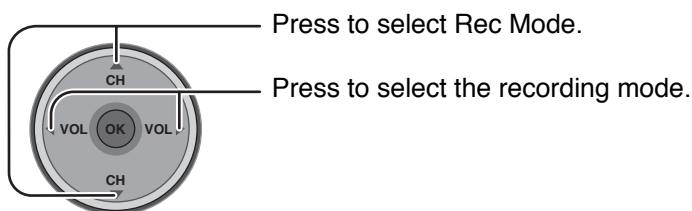
Record Setting



Record Setting	
Rec Mode	Economy
Rec Time	Not Set

■ Rec Mode (Extrafine, Superfine, Fine, Normal, Economy)

The quality of picture can be changed.

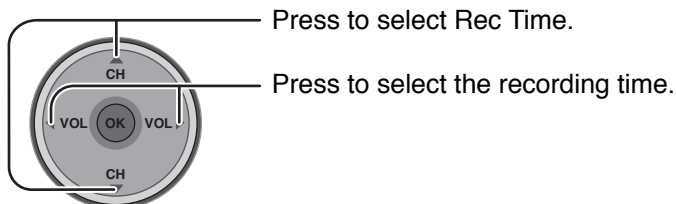


Note:

Multi Media Cards do not support the Extrafine or Superfine recording mode. If video recording is started in this status, recording will automatically be performed in the Fine mode.

■ Rec Time (Not Set, 5 min, 10 min, 15 min, 30 min, 60 min, 90 min, 120 min, 180 min)

Set the recording time before recording.



Note:

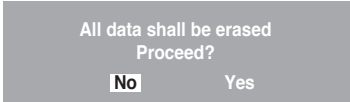
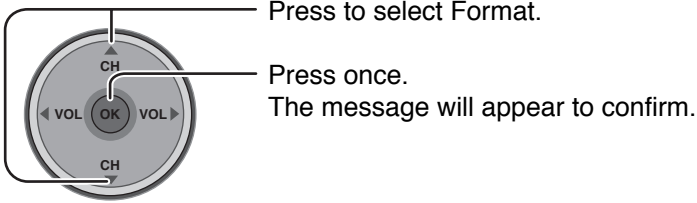
If you set Rec Time to Not Set, the recording does not stop automatically until the card is fully recorded.

Card operations

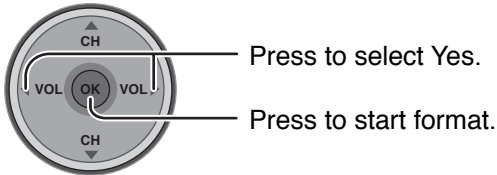
Format

You can format the card.

1



2

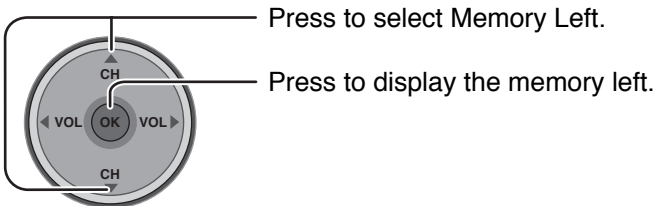


Notes:

- If the card is formatted, all data is erased.
- Only cards that are supported by the SD card slot can be formatted.

Memory Left

You can confirm the remaining time for recording in each Rec Mode.



Memory Left	13 MB
Recordable Min	
Economy	17Min
Normal	5Min
Fine	4Min
Superfine	1Min
Extrafine	1Min
Press MENU to return	

Note:

Since Multi Media Cards do not support the Extrafine or Superfine recording mode, “ --- ” appears.


Error messages

“Is SD card In?”	Insert a card.
“Locked SD. Check Card”	Unlock the SD card.
“Locked File. Unlock to delete”	Unlock the file in the card.
“Not supported”	The card must be formatted with FAT 12 or FAT 16. Still image must be with DCF and EXIF standard JPEG file. Animated picture must be with MPEG4 standard ASF file. Incompatible card is inserted.
“Broken File. Cannot display image”	The file is broken.
“Memory Full”	The card memory is full.
“Not enough memory”	The card does not have enough memory to operate.
“Cannot Read File”	The file is not readable.
“Unrecordable Source”	Video recording is possible on the analog channels only. However, it is not possible on restricted channels.
“Error. Check Card”	Re-insert the card. If the error persists, format the card.
“SD Recording. Stop recording to operate”	The power button, SAP button and tuning buttons for the main picture do not work while video recording is in progress.

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.



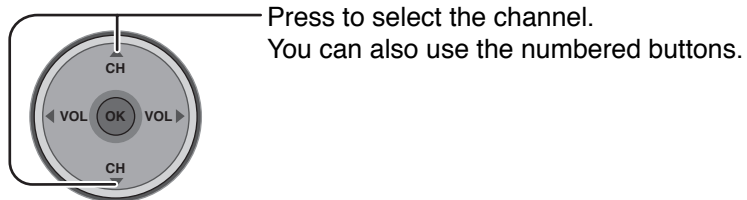
Notes:

- 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 In the SPLIT frame

 Select the channel.

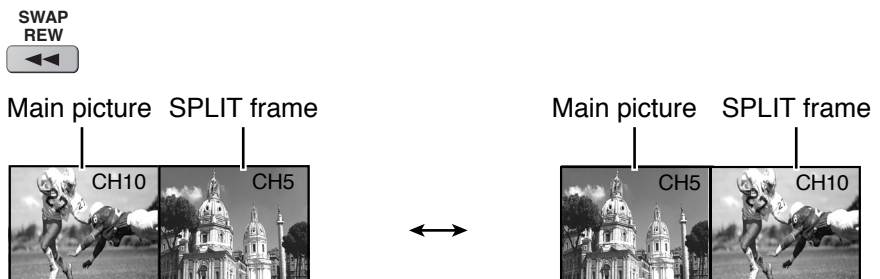
In the Main picture



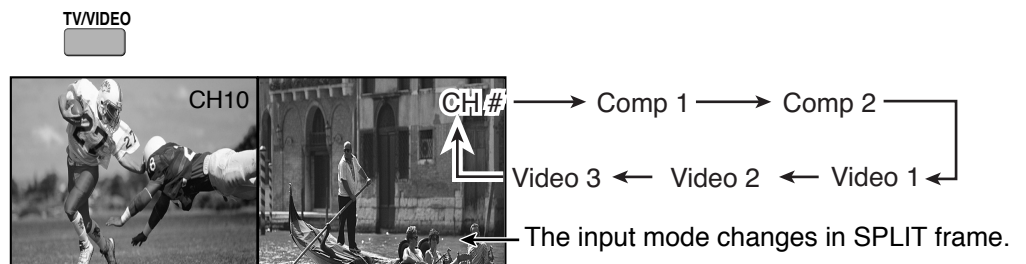
To cancel the SPLIT operation



To swap the pictures



To select the input mode of SPLIT frame



Notes:

- The Main picture and the SPLIT frame are processed in separate 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.
- SWAP is not possible when main picture signal is ATSC digital channel.

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 input signal.

- 480i : 4:3, Full, Just and Zoom
- 480p (4:3) : 4:3, Full and Zoom
- 480p (16:9) : 4:3, Full and Zoom
- 1080i : 16:9 only

Mode	Picture	Explanation
4 : 3		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 repositions 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 has aspect correction applied. The size of the picture depends on the original signal. (Recommended for regular TV viewing.)

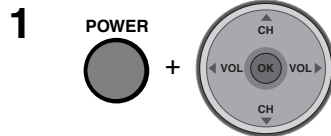
Operating peripheral equipment using the remote control

Programming the remote control code

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

Preparations:

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



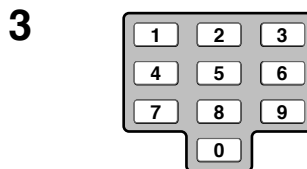
Press and hold **POWER** and **OK** together, for **at least 5 seconds**.

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



Select the type of the component.

- The selected button lights and all others go out.



Enter the 3-digit infrared code (see pages 51-53).

- 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 a code not listed in the index

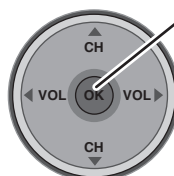
1 After selecting the type of component (step 2, above)



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 50 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 9). Refer to pages 54 and 55 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

DBS/CBL

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
Zenith	127

DBS/CBL

Codes for Cable Box


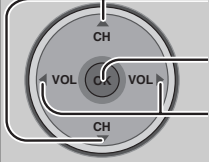



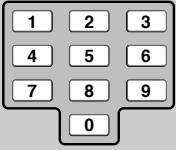




Brand	Code
ABC	224
Archer	225, 232
Cableview	205, 232
Citizen	205, 222
Curtis	212, 213
Diamond	224, 225, 232
Eagle	229
Eastern	234
GC Brand	205, 232
Gemini	222
General Instrument/Jerrold	211, 219, 220, 221, 222, 223, 224, 225, 226, 227
Hamlin	212, 218, 240, 241, 242, 245
Hitachi	203, 224
Macom	203, 204, 205
Magnavox	233
Memorex	230
Movietime	205, 232
Oak	202, 237, 239
Panasonic	209, 210, 214
Philips	206, 207, 228, 229, 230
Pioneer	201, 216
Pulsar	205, 232

Brand	Code
Puser	232
RCA	215
Realistic	232
Regal	212, 218, 240, 241, 242, 245
Regency	234
Rembrandt	205, 232, 237
Samsung	205
Scientific Atlanta	211, 212, 213
Slmark	201, 205
Sprucer	205, 210
Stargate	205, 232
Televue	201, 205
Texscan	244
Tocom	235
Toshiba	204
Unika	225, 232
Universal	222, 232
Videoway	206
Viewstar	229, 230
Zenith	200, 217
Zenith /Drake Satellite	200





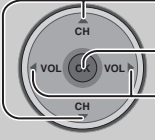














Operating peripheral equipment using the remote control

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.















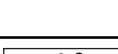

KEY NAME	DTV MODE	CABLE MODE	DBS MODE
	POWER	POWER	POWER
	NAVIGATION UP/DOWN	CABLE CHANNEL UP/DOWN	DBS NAVIGATION UP/DOWN
	OK	—	DBS MENU
	NAVIGATION RIGHT/LEFT	—	DBS NAVIGATION RIGHT/LEFT
	DTV MENU	—	—
	PROGRAM INFO.	—	DBS PROGRAM INFO.
	EXIT (EPG)ELECTRONIC PROGRAM GUIDE	—	EXIT DBS MENU
	Select Channel	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
	TV MUTE	TV MUTE	RCVR MUTE	TV MUTE	RCVR MUTE	RCVR MUTE	RCVR MUTE
	TV INPUT SW	—	—	—	TV INPUT SW	—	RCVR INPUT SW
	—	—	—	—	—	—	REMOTE BUTTONS
	—	NAVIGATION UP/DOWN	NEXT/PREVIOUS TRACK	NAVIGATION UP/DOWN	—	—	TUNER +/-
	—	—	—	—	—	—	—
	VOLUME +/-	NAVIGATION RIGHT/LEFT	RCVR VOLUME +/-	NAVIGATION RIGHT/LEFT	VOLUME +/-	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

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

Symptoms		Checks
Picture	Sound	
 Snowy Picture	 Noisy Sound	Antenna location, direction or connection.
 Multiple Image	 Normal Sound	Antenna location, direction or connection.
 Interference	 Noisy Sound	Electrical appliances. Cars / Motorcycles. Fluorescent lights.
 Normal Picture	 No Sound	Volume level. Sound mute switched on.
 No Picture	 No Sound	TV in AV mode. Not plugged into AC outlet. Not switched on. Picture / Sound controls set at minimum levels. Check if in Standby mode. Make sure that a PC is not connected to HDMI input. The TV may 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 happen, unplug the HDMI/DVI device and plug it back in.
 No Color	 Normal Sound	Color controls set at minimum levels. Weak signal.
 Poor or Distorted Picture	 Weak, or No Sound	Retune Channels.
 Normal Picture	 Weak, Wrong or No Sound	Sound reception may have deteriorated. Switch STEREO mode (AUDIO ADJUST menu) to Off until reception improves. 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.
Cannot operate with the remote control.		The batteries are weak or dead. The battery's polarity is wrong. The remote control sensor is exposed to strong light of a fluorescent lamp, etc.
The main unit is hot.		The main unit radiates heat and some of the parts may become hot. This is normal and should not affect performance or reliability. Set up at a location with good ventilation. Do not cover the ventilation holes of the TV with a tablecloth etc., and do not place on top of other equipment.
There may be red spots, blue spots, green spots and black spots on the screen.		This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of red, blue, green, or black. Please note this does not affect the performance of your LCD.
HDMI	Poor Video. (Snow noise, no picture, picture runs, etc.)	HDMI cable is not connected securely. Turn the power supply of the TV and connected equipment OFF then turn on. Check compatibility of input signal from the connected equipment. The connected equipment must be EIA/CEA-861/861B compliant.
	Poor Audio.	Change the audio setting of the connected equipment to L.PCM. Check the setting of HDMI INPUT. If the problem is due to the digital audio connection, change to the analog audio connection.
The SD card cannot be used even when it is formatted.		Please consult an Authorized Service Center.

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 LCD Televisions Limited Warranty

Limited Warranty Coverage

If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic 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.

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

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

In-Home or Carry-in Service

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

For assistance in Puerto Rico call Panasonic 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 LCD panel resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, 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. 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/consumersupport>

or, contact us via the web at:

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

You may also contact us directly at:

1-800-211-PANA (7262)

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

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

Accessory Purchases

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

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

or, send your request by E-mail to:

npcparts@us.panasonic.com

You may also contact us directly at:

1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)

Panasonic Services Company

20421 84th Avenue South,

Kent, WA 98032

(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

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:

- The modified work must itself be a software library.
- You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- 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:

- 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.)
- 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.
- 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.
- 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.
- 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



Panasonic®

Manual de instrucciones Televisor LCD panorámico

Número de modelo **TC-32LX300**



La imagen en la pantalla del televisor es simulada.

Para solicitar ayuda, llame al: 1-800-211-PANA (7262)
o envíe correo electrónico a: consumerproducts@panasonic.com
o visítenos en www.panasonic.com (EE.UU.)

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

Antes de conectar, utilizar o ajustar este producto, lea completamente este manual de instrucciones;
y guárdelo para consultarlo en el futuro en caso de ser necesario.

Español

TQB2AA0527-1

Instrucciones de seguridad importantes



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.

■ **Nota para el instalador de sistemas CATV:** Este recordatorio se incluye para que el instalador del sistema CATV ponga atención al Artículo 820-40 de la NEC, el cual proporciona consejos para realizar una puesta a tierra apropiada y, en particular, especifica que el cable de puesta a tierra deberá conectarse al sistema de puesta a tierra del edificio, tan cerca del punto de entrada del cable como sea posible.

■ Instrucciones de seguridad importantes para el televisor LCD

- 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) Utilice solamente el tipo de fuente de alimentación indicado en la etiqueta de especificaciones. Si no está seguro del tipo de alimentación suministrado a su hogar, consulte al concesionario de su televisor o a la compañía eléctrica de su localidad.
- 16) Siga todas las advertencias e instrucciones marcadas en el televisor LCD.
- 17) No meta nunca objetos de cualquier clase en este televisor LCD a través de las ranuras de la caja porque pueden tocar puntos de alta tensión peligrosos o cortocircuitar piezas que podrían causar un incendio o una descarga eléctrica. No derrame nunca líquidos de ninguna clase en el televisor LCD.
- 18) Si se conecta una antena exterior al televisor, asegúrese de que el sistema de la antena esté conectado a tierra para disponer de algo de protección contra las sobrecargas de tensión y las cargas de electricidad estática acumuladas. En los EE.UU., la Sección 810-21 del Código Eléctrico Nacional (NEC) proporciona la información correcta con respecto a la conexión a tierra del mástil y de la estructura de apoyo, la conexión a tierra del cable de bajada mediante una unidad de descarga de antena, el tamaño de los conductores de conexión a tierra, la ubicación de la unidad de descarga de antena, la conexión de los electrodos de conexión a tierra y los requerimientos para dichos electrodos.



Instrucciones de seguridad importantes

19) Un sistema de antena exterior no deberá colocarse cerca de cables de alimentación elevados ni cerca de circuitos de luces eléctricas o de alimentación, ni tampoco donde pueda caer sobre tales cables o circuitos. Cuando instale un sistema de antena exterior deberá tener mucho cuidado para que éste no toque tales cables o circuitos porque el contacto con ellos podría resultar fatal.

20) Desenchufe el televisor LCD de la toma de corriente y solicite el trabajo de reparación al personal de servicio cualificado bajo las condiciones siguientes:

- Cuando la clavija o el cable de alimentación estén estropeados.
- Si se ha derramado líquido en el interior del televisor LCD.
- Si el televisor LCD ha estado expuesto a la lluvia o a la humedad.
- Si el televisor LCD no funciona normalmente siguiendo las instrucciones de funcionamiento.

Ajuste solamente aquellos controles indicados en las instrucciones de funcionamiento. Un ajuste incorrecto de los demás controles puede causar daños y, a menudo, requerirá el trabajo exhaustivo de un técnico cualificado para que el televisor LCD vuelva a funcionar normalmente.

e. Si el televisor LCD se ha caído o su caja ha sido estropeada.

f. Cuando el televisor LCD muestre un cambio distintivo en su rendimiento: esto indica la necesidad de mantenimiento.

21) Cuando sean necesarias piezas de recambio, asegúrese de que el técnico de servicio utilice aquellas especificadas por el fabricante que tengan las mismas características que las piezas originales. Las sustituciones no autorizadas pueden causar un incendio, descarga eléctrica u otros peligros.

22) **ADVERTENCIA : PARA REDUCIR EL RIESGO DE INCENDIO O DESCARGA ELÉCTRICA, NO EXPONGA ESTE APARATO A LA LLUVIA NI A LA HUMEDAD.**

NO PONGA EN DEL APARATO (INCLUYENDO ESTANTERÍAS QUE SE ENCUENTREN ENCIMA DEL MISMO, ETC.) RECIPIENTES CON AGUA (FLOREROS, TAZAS, COSMÉTICOS, ETC.).

23) **PRECAUCIÓN :** PARA IMPEDIR LAS DESCARGAS ELÉCTRICAS NO UTILICE ESTA CLAVIJA CON UN RECEPTÁCULO U OTRA TOMA DE CORRIENTE DONDE LAS PATILLAS NO PUEDAN INTRODUCIRSE COMPLETAMENTE Y QUEDEN EXPUESTAS.

24) **PRECAUCIÓN :** LA UTILIZACIÓN CON OTRO SOPORTE PUEDE CAUSAR INESTABILIDAD Y POSIBLEMENTE HERIDAS.

25) **PRECAUCIÓN :** EXISTE EL RIESGO DE QUE SE PRODUZCA UNA EXPLOSIÓN SI LA BATERÍA NO SE REEMPLAZA CORRECTAMENTE. REEMPLACE LA BATERÍA POR OTRA DEL MISMO TIPO O EQUIVALENTE.

• Ventilación segura

En la caja y en la parte trasera o inferior del televisor se han provisto ranuras y aberturas para ventilación, y para asegurar una operación fiable del televisor LCD y protegerlo contra el recalentamiento. Estas aberturas no deberán ser bloqueadas ni tapadas. Deberá haber un espacio de 10 cm por lo menos desde estas aberturas. Las aberturas no deberán ser bloqueadas nunca poniendo el televisor LCD encima de una cama, sofá, alfombra u otras superficies similares. Este televisor LCD no deberá ser puesto en una instalación empotrada tal como una estantería de libros a menos que se provea una ventilación apropiada.

NOTAS: • Este equipo ha sido diseñado para funcionar en los EE.UU. y en otros países donde el sistema de emisión y la CA del hogar son exactamente los mismos que en los EE.UU.

- Las marcas o imágenes retenidas en el panel LCD debido a la utilización de imágenes fijas no es un defecto de funcionamiento y, por lo tanto, no lo cubre la garantía. Este producto no ha sido diseñado para mostrar imágenes fijas durante largos periodos de tiempo.

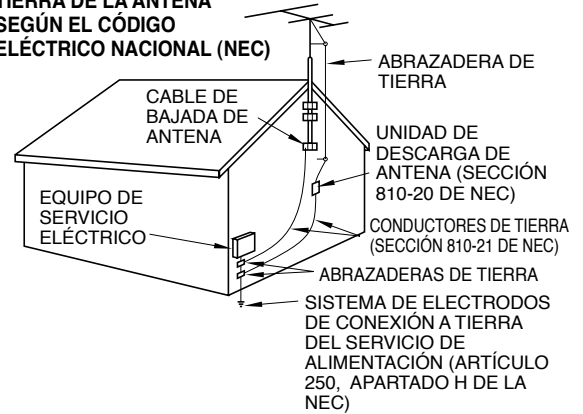
■ **Información importante relacionada con el uso de videojuegos, computadoras, subtítulos u otras visualizaciones de imágenes fijas.** La utilización prolongada de programas con imágenes fijas puede causar una "imagen de sombra" permanente en el panel LCD.

Esta imagen de fondo se puede ver en programas normales en forma de imagen fija estacionaria. Este tipo de deterioro del panel LCD puede limitarse siguiendo los pasos indicados a continuación:

- Reduciendo al nivel de visión mínimo el ajuste del brillo/contraste.
- No visualizando imágenes fijas durante largos periodos de tiempo.
- Desconectando la alimentación cuando no se utiliza el aparato.

■ **Este producto utiliza soldadura de estaño-plomo, y tiene una lámpara fluorescente que contiene una pequeña cantidad de mercurio. Tirar estos materiales puede estar regulado en su comunidad debido a la conservación del medio ambiente. Para obtener información sobre la forma apropiada de tirar o reciclar estos materiales, póngase en contacto con las autoridades de su localidad, o con la Electronics Industries Alliance: www.eiae.org.**

EJEMPLO DE CONEXIÓN A TIERRA DE LA ANTENA SEGÚN EL CÓDIGO ELÉCTRICO NACIONAL (NEC)



Estimado cliente de Panasonic

Bienvenido a la familia de clientes de Panasonic.

Esperamos sinceramente que disfrute durante muchos años de su nuevo televisor LCD.

Para obtener el máximo beneficio de su aparato, lea estas instrucciones antes de hacer cualquier ajuste, y guárdelas para poder utilizarlas como referencia en el futuro.

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

Para solicitar ayuda, llame al: 1-800-211-PANA (7262)

o envíe correo electrónico a: consumerproducts@panasonic.com

o visítenos en www.panasonic.com

(EE.UU.)

Para solicitar ayuda, llame al: 787-750-4300

o visítenos en www.panasonic.com

(Puerto Rico)

Información de la Comisión Federal de Comunicaciones

Este equipo ha sido probado y ha demostrado cumplir con los límites establecidos para los receptores de TV, de conformidad con el Apartado 15 de las Normas de la FCC. Estos límites han sido establecidos para proporcionar una protección razonable contra la interferencia perjudicial 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 en particular. Si este equipo causa o recibe interferencias, lo que puede determinarse apagando y encendiendo el equipo, se recomienda que el usuario intente corregir la interferencia tomando una o más de las medidas siguientes:

Cambie la orientación o el lugar de instalación de la antena de TV.

Aumente la separación entre el televisor y el otro equipo.

Conecte el televisor en una toma en la que no esté conectado el otro equipo.

Consulte a su concesionario o técnico experto en radio/TV para solicitar su ayuda.

Aviso de la FCC: En conformidad con 47CFR, Apartado 15.21 de las normas de la FCC, cualquier cambio o modificación no aprobado expresamente por Matsushita Electric Corporation de América podrá resultar en interferencia nociva y anulará la autorización que el usuario tiene para utilizar este equipo.



Fabricado bajo licencia de Dolby Laboratories.

“Dolby” y el símbolo con una doble D son marcas comerciales de Dolby Laboratories.



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.

CableCARD™ es una marca comercial de Cable Television Laboratories, Inc.

Índice

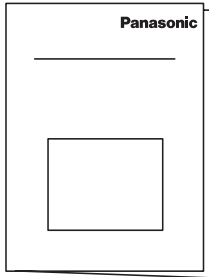
Instrucciones de seguridad importantes	2	Cronometro	28
Accesorios	6	Reloj	29
Pilas en el control remoto	6	Aj. de Dia	29
Instalación	7	Setup (Programación)	30
Ubicación de los controles	8	Programar Canal	30
Aparato principal	8	Auto Escaneo	31
Transmisor del mando a distancia	8	Prog. Manual	31
Conexiones	10	Subtitulos	33
Conexión de la antena	10	Other Adj. (Otro ajuste)	35
Conexión de decodificador		CableCARD™	35
de televisión por cable	10	Lock (Bloqueo)	36
Conexiones audio / vídeo	11	Lock Set (Bloqueo)	36
Conexión AUDIO OUT	11	Channel Lock (Bloqueo de Canal)	37
Conexión VIDEO 1 / 2 INPUT	12	Block Program (Bloqueo de Programa)	37
Conexión COMPONENT VIDEO INPUT	12	Cuanto tiempo?	39
Conexión HDMI	13	Codigo	39
Conexión de CableCARD™	14	Operaciones de la tarjeta	40
Conexiones del panel frontal	14	Introducción y extracción de una tarjeta	40
Encendido / apagado de la alimentación	15	Tarjetas compatibles y tamaño de tarjetas	40
Ajuste Inicial	15	Carpetas y archivos	41
Sel. de Entrada	15	Menu SD	42
Auto Escaneo	16	Grabar en SD	42
Lengua	16	Menu de película	43
Para ver programas de TV	17	Menu de imágenes	44
VHF y UHF	17	Aj. de grabado	45
Televisión por cable	17	Formatear	46
Navegación por menús	18	Memoria Restante	46
Picture (Imagen)	20	Operación SPLIT	48
Modo	20	Para cambiar las imágenes	48
Luz de Atras / Color / Tinte / Brillo		Para seleccionar el modo	
/ Contraste / Nitidez / Normal	20	de entrada del cuadro SPLIT	48
Otros Ajustes	20	Controles de ASPECTO	49
Audio	22	Funcionamiento de equipos periféricos	
Bajos / Altos / Balance / Normal	22	utilizando el control remoto	50
Otros Ajustes	22	Programación del código de control remoto	50
Channel (Canal)	24	Para encontrar el código no listado en el índice ..	50
Favoritos	24	Índice de claves infrarrojas	51
Titulado	25	Tabla de teclas operacionales	54
Cronometro	27	Tabla de solución de problemas	56
Apagado	27	Especificaciones	57
		Mantenimiento	57

Accesorios

Compruebe que ha recibido todos los accesorios indicados



Manual de instrucciones



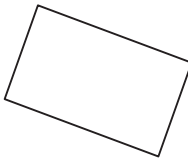
Transmisor del mando a distancia EUR7627Z30



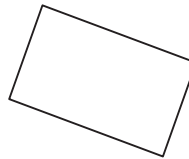
Pilas para el transmisor de mando a distancia (2 x tamaño AA)



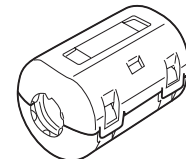
Tarjeta del cliente



Tarjeta para el plan de asistencia al cliente

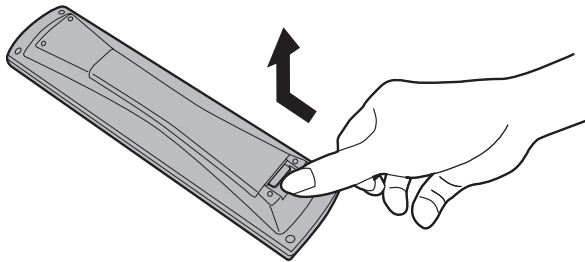


Núcleo de ferrita (para cable HDMI) (x 1)

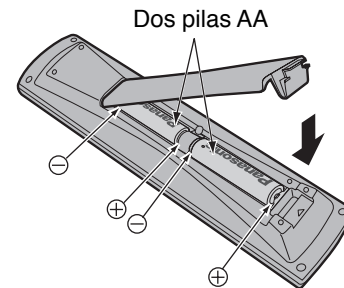


Pilas en el control remote

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.



Consejos útiles:

A los usuarios que utilizan frecuentemente el control remoto se les recomienda sustituir las pilas viejas por pilas alcalinas que duran más.

Consejos útiles:

Siempre que retire las pilas, **puede que necesite volver a poner las claves del control remoto de infrarrojos**. Le recomendamos anotar la clave de la página 50 antes de preparar el control remoto.

⚠ Precauciones relacionadas con el uso de las pilas

La instalación incorrecta de las pilas puede causar fugas en las mismas y corrosión, lo que dañará el control remoto.

Tenga en cuenta las precauciones siguientes:

1. Las pilas deberán sustituirse siempre en pares. Utilice siempre pilas nuevas cuando sustituya las pilas viejas.
2. No mezcle una pila usada con otra nueva.
3. No mezcle pilas de tipos diferentes (ejemplo: "carbón y cinc" con "alcalinas").
4. No intente cargar, cortocircuitar, desarmar, calentar o quemar las pilas usadas.
5. Las pilas tendrán que sustituirse cuando el control remoto funcione esporádicamente o no pueda controlar el televisor.

Instalación

Colocación del receptor

Colóquelo en un lugar donde pueda verlo confortablemente. Evite colocarlo donde la luz del sol o una luz brillante (incluidos reflejos) caiga sobre la pantalla.

La utilización de algunos tipos de luces fluorescentes puede reducir el alcance del transmisor de mando a distancia. La ventilación adecuada resulta esencial para impedir el fallo de los componentes internos. Manténgalo alejado de los lugares donde el calor o la humedad sean excesivos.

Equipo externo opcional

La conexión de vídeo/audio entre los componentes se puede hacer con cables de vídeo y audio blindados. Para obtener el mejor rendimiento, los cables de antena deberán utilizar conductores blindados coaxiales de 75 ohmios. Los cables pueden adquirirse en el establecimiento de su concesionario o en una tienda de productos electrónicos.

Antes de adquirir cualquier cable, asegúrese de que conoce el tipo de conectores de salida y entrada necesarios para sus diversos componentes. Determine también la longitud del cable necesaria.

Para obtener una imagen de óptima calidad

Cuando el LCD se exponga a la luz exterior o de accesorios de iluminación, las imágenes de contraste alto no se mostrarán claramente. Apague las luces fluorescentes ubicadas cerca del LCD y colóquelo en un lugar que no esté expuesto a la luz.

Cómo colgar el televisor LCD en la pared

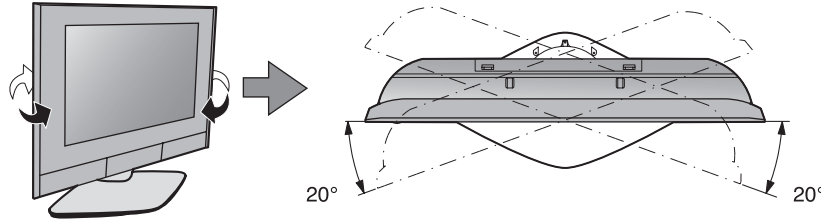
El montaje en pared de este televisor LCD deberá ser realizado únicamente con el accesorio opcional siguiente. El montaje en pared con cualquier otro tipo de soporte podrá ocasionar inestabilidad que resultará en la posibilidad de que se produzcan daños o heridas.

- Soporte para colgar en pared TY-WK32LX20W

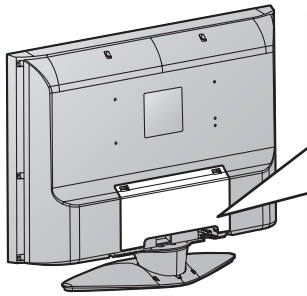
Le rogamos que consulte con un técnico cualificado para realizar una instalación correcta.

Como utilizar la base de la pantalla LCD

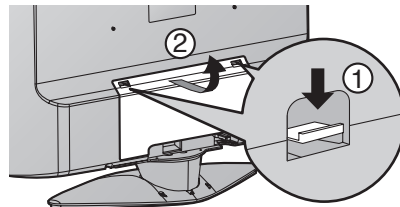
Ajuste el soporte con el ángulo deseado. El ángulo del estante se puede ajustar entre 20 ° a la izquierda y 20 ° a la derecha.



Extracción e instalación de la tapa del cable

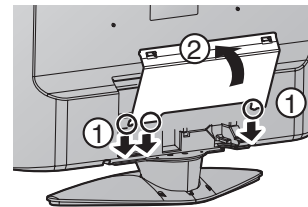


Extracción



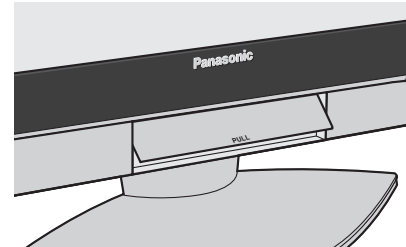
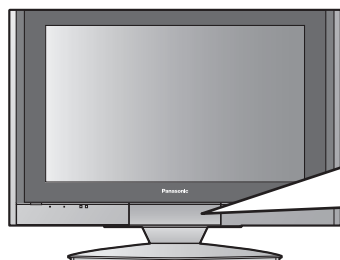
1. Presione en los ganchos hacia abajo y tire suavemente de la tapa hacia usted para soltar las garras (en 3 puntos).
2. Tire de la tapa lentamente hacia abajo.

Instalación



1. Inserte las garras (en 3 puntos) en el extremo de la parte superior.
2. Empuje la cubierta hasta que los ganchos encajen en su sitio produciendo un chasquido.

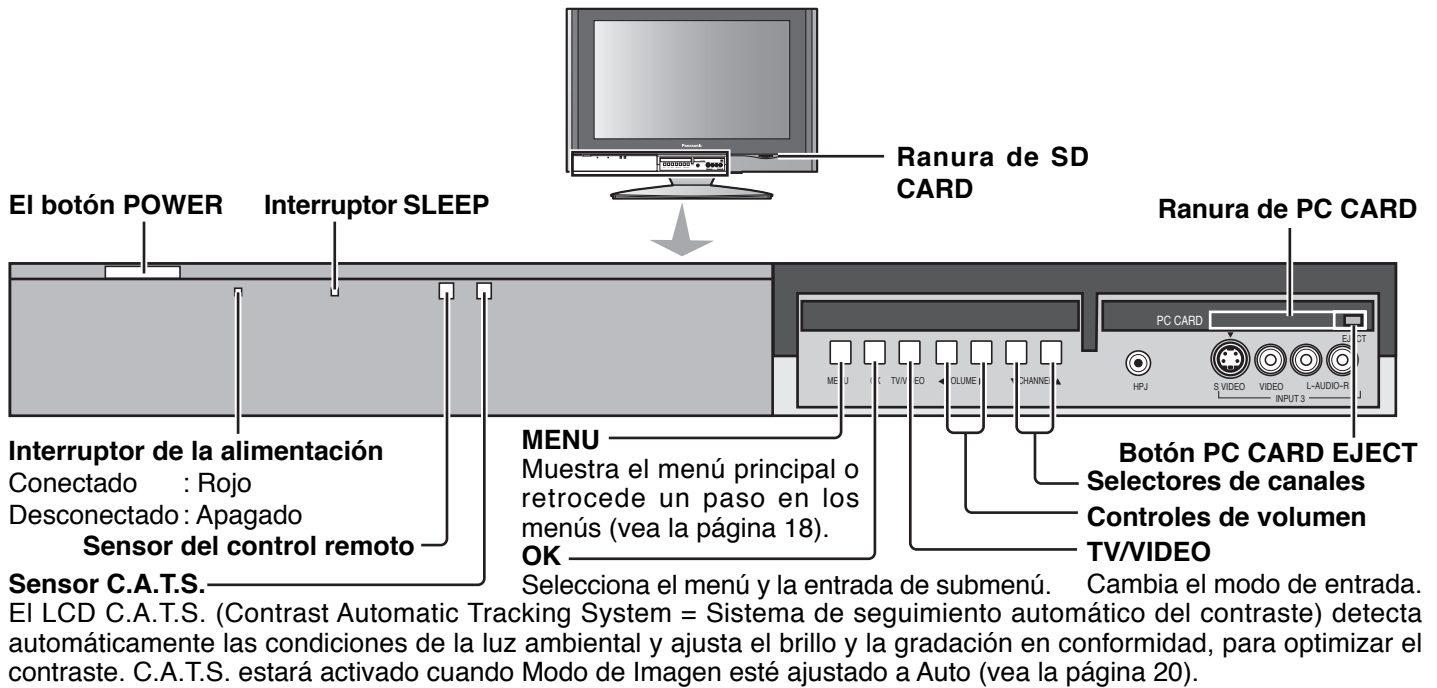
Apertura de la tapa de controles delantera



Alce la parte inferior de la tapa rotulada "PULL".

Ubicación de los controles

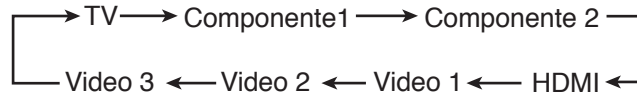
Aparato principal



Transmisor del mando a distancia

TV/VIDEO

Cambia el modo de entrada.



SD

Acceda a las operaciones de la tarjeta (vea la página 42).

MUTE

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

ASPECT

Cambia el aspecto de la pantalla (vea la página 49).

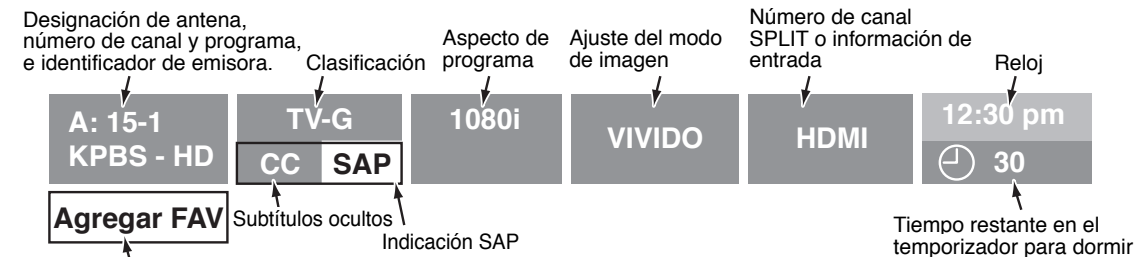
SLEEP (modo de TV)

Ponga el tiempo tras el cual el televisor se pondrá en el modo de espera. 0 → 30 → 60 → 90

- Cuando queden 3 minutos parpadeará " 3" ("2" para 2 minutos y "1" para 1 minuto).
- El temporizador de cancelado se cancelará cuando se desconecte la alimentación.

RECALL

Muestra o cancela la información de canales.



Presione el botón OK para agregar un canal a la lista de canales favoritos o para borrarlo de la misma (vea la página 24).

R-TUNE

Cambia a un canal visto previamente e introduce los modos.

Ubicación de los controles

POWER

Enciende o apaga el televisor.

Botones de selección de modo (vea la página 50)

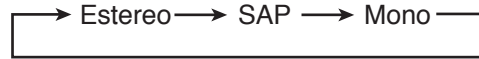
TV: Televisor **RCVR:** Receptor/amplificador
VCR: Videgrabadora **DBS:** Satélite de emisión digital
DVD: DVD **CBL:** Televisión por cable
DTV: TV digital **AUX:** Auxiliar

SAP

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

Pista de audio 1 de 1 (Español)

- 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. Cuando está encendido parpadea el botón del modo seleccionado.

A - ANTENNA - B

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

▲ CH: Cambia al siguiente canal superior

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

◀ VOL : Reduce el volumen.

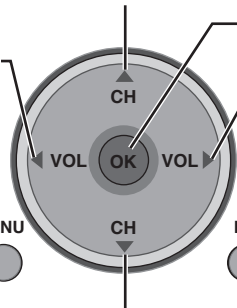
◀ : Mueve el cursor hacia la izquierda durante el modo del menú.

MENU

Muestra el menú principal o retrocede un paso en los menús (vea la página 18).

▼ CH: Cambia al siguiente canal inferior

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



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.

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]

SWAP

Cambia imágenes en operaciones SPLIT (vea la página 48).

SPLIT

Pantalla dividida (vea la página 48)

Funcionamiento de otro dispositivo

(vea las páginas 54, 55)

SPLIT CH

Selecciona el canal durante la operación SPLIT (vea la página 48).

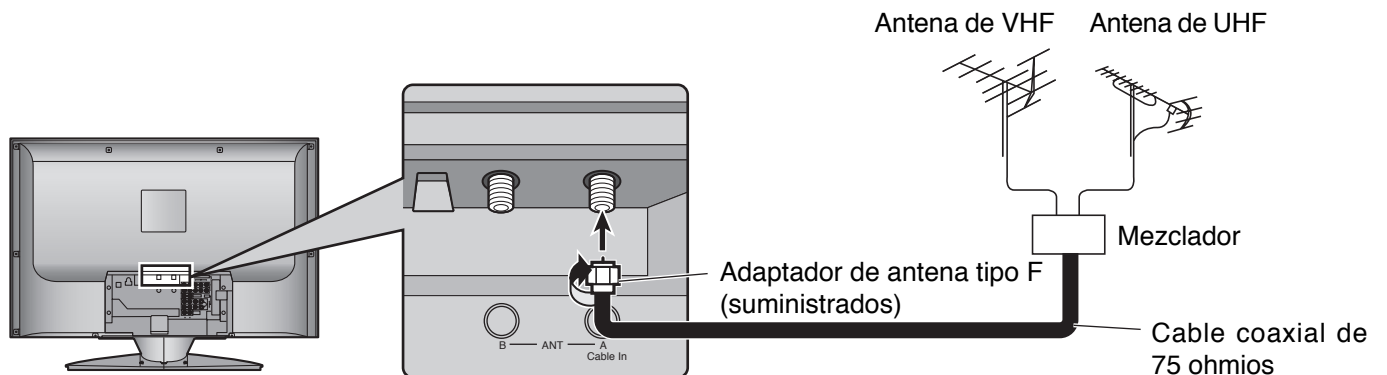


Panasonic
TV

Conexiones

Conexión de la antena

- Para recibir correctamente los canales de VHF/UHF se necesita una antena externa. Para obtener la mejor recepción se recomienda una antena exterior.
- Para ver programas de TV de transmisión aérea solamente, conecte una antena de casa a ANTENNA (A). Para ver programas de TV de transmisión aérea y programas de TV por cable, **conecte el cable de la TV por cable a ANTENNA (A), y el cable de antena terrestre a ANTENNA (B).**
- Seleccione el modo de antena en Sel. de Entrada (vea la página 15).

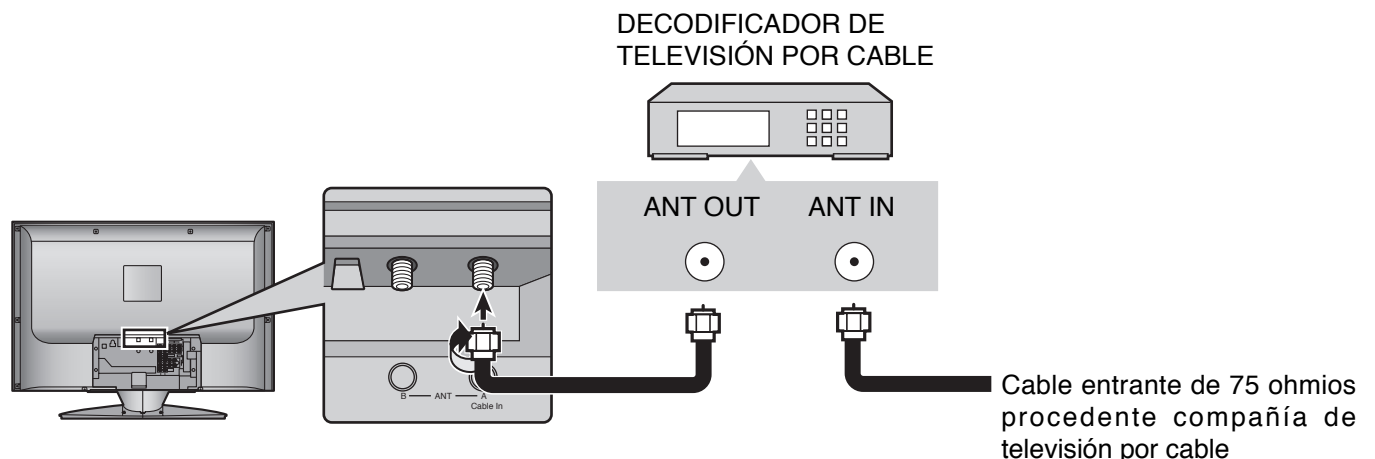


Notas:

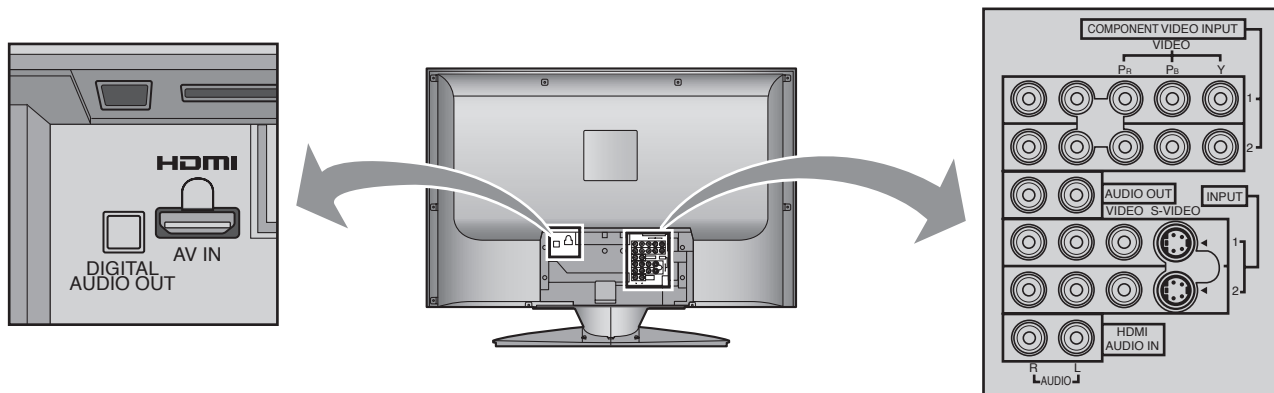
- Ciertos sistemas de televisión por cable neutralizan algunos canales para reducir la interferencia o tener canales de alta calidad (codificados). En estos casos, para que la recepción sea apropiada, será necesario disponer de un decodificador de televisión por cable. Consulte con su compañía de televisión 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

- Para ver 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 la TV por cable a ANTENNA (A) y el cable de la antena terrestre a ANTENNA (B).**
- Seleccione el modo de antena en Sel. de Entrada (vea la página 15).



Conexiones audio / vídeo

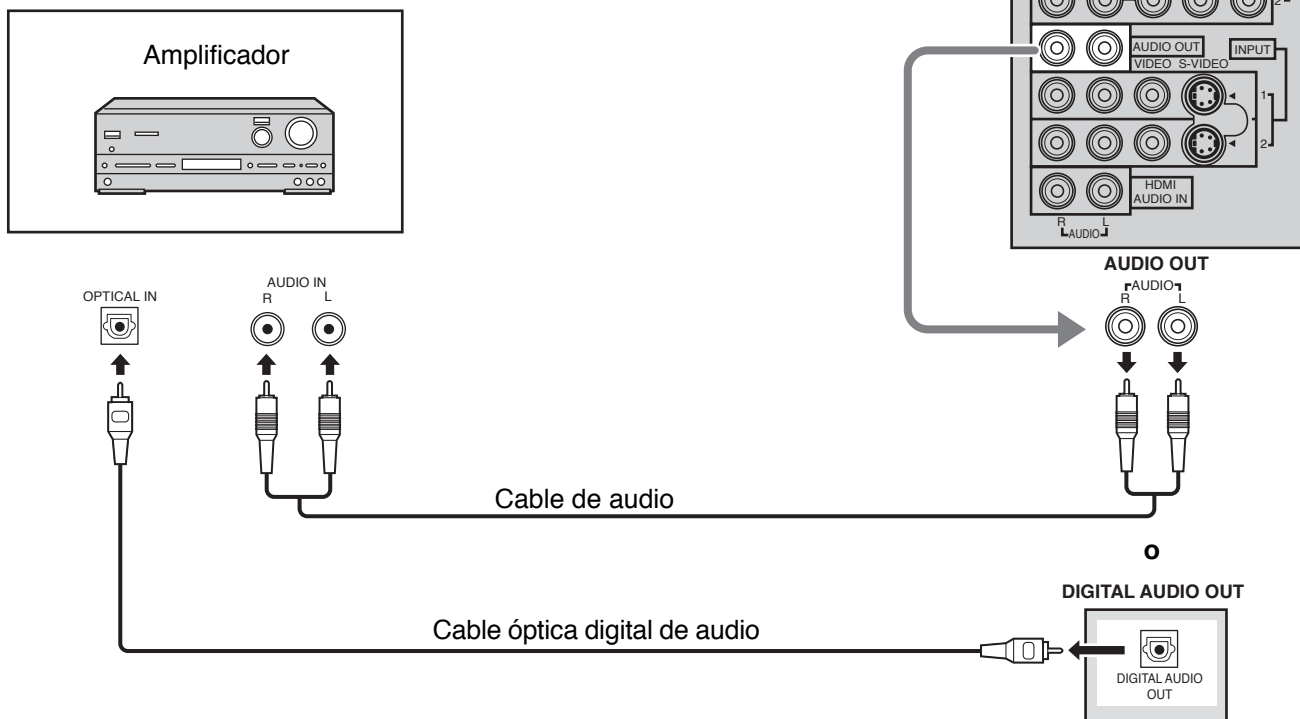


Conexión AUDIO OUT

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).

Ejemplo de conexión del audio de salida

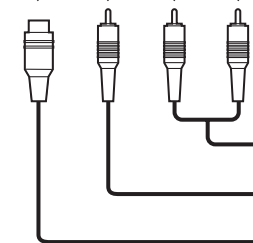
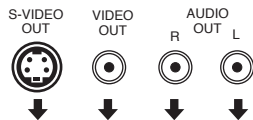


Notas:

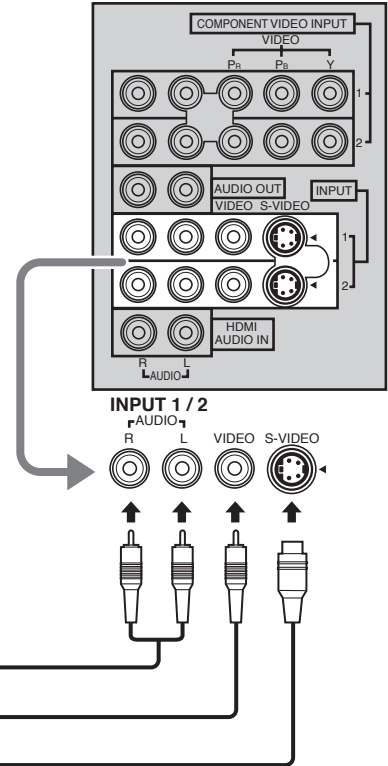
- Los altavoces externos no se pueden conectar directamente a los terminales AUDIO OUT.
- Cuando se seleccione un canal ATSC, la salida procedente de la toma DIGITAL AUDIO OUT será Dolby Digital. Cuando se seleccione un canal NTSC, la salida será PCM.

Conexión VIDEO 1 / 2 INPUT

Ejemplo de fuente de la señal de entrada



Cable de audio
Cable de vídeo
Cable de vídeo S



Nota:

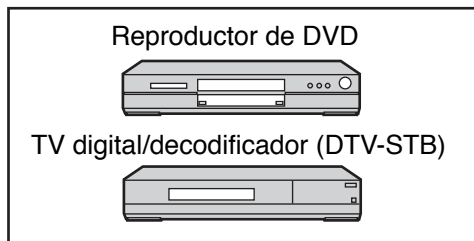
Conecte al terminal S-VÍDEO o VÍDEO.

Conexión COMPONENT VIDEO INPUT

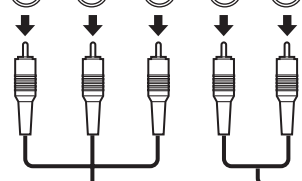
Este televisor es capaz de mostrar imágenes de DTV en formato 1080i y 480p cuando se conecta a un receptor de DTV-decodificador (STB). Este televisor utiliza también un doblador de barrido progresivo, el cual barre la imagen de formato NTSC de manera progresiva. Esto le permite no ver las delgadas líneas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

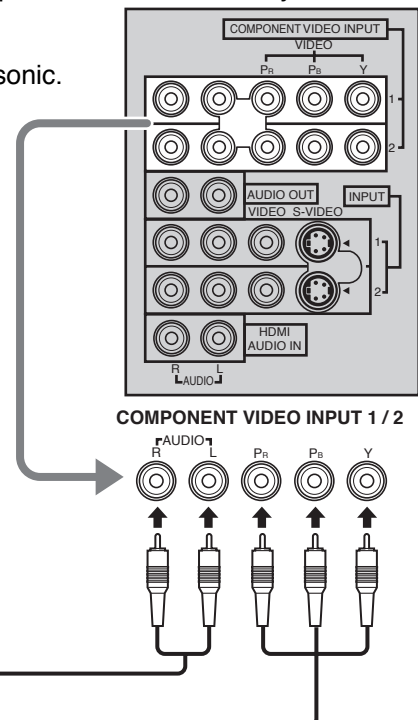
Ejemplo de fuente de la señal de entrada



COMPONENT VIDEO OUT P_R P_B Y



Cable de audio
Cable de vídeo componente

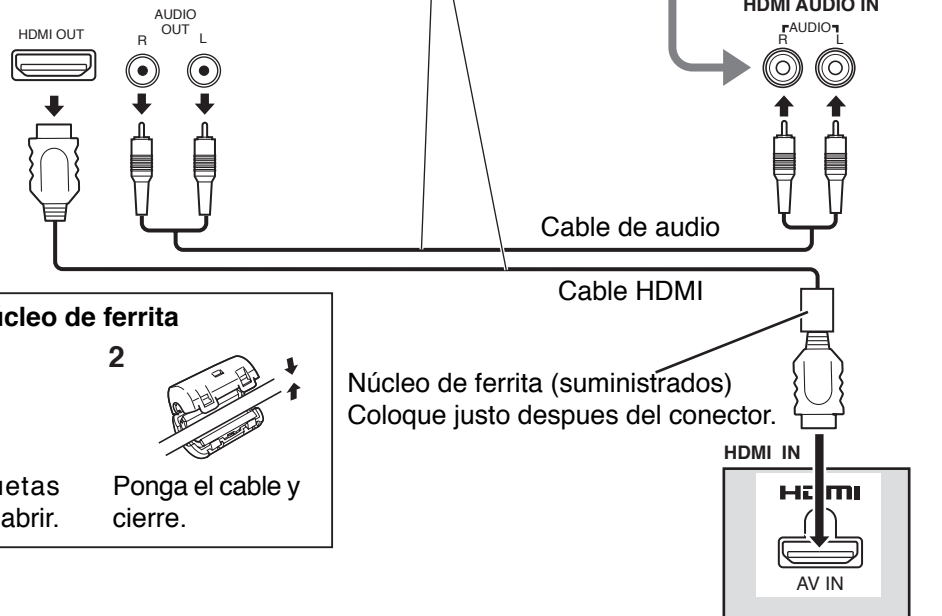


Conexión HDMI

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 se puede conectar un dispositivo compatible con EIA/CEA-861/861B*², tal como un Set-Top Box o reproductor DVD con terminal de salida HDMI o DVI.

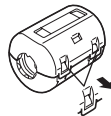
- Si el dispositivo externo tiene una salida DVI solamente, utilice un cable adaptador DVI a HDMI*³ para conectar al terminal HDMI.
- Cuando utilice un cable adaptador DVI a HDMI conecte los cables de audio a los terminales AUDIO IN.
- Seleccione el ajuste de audio en HDMI In (vea la página 23).

Ejemplo de fuente de la señal de entrada HDMI



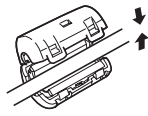
Instalación del núcleo de ferrita

1



Tire de las lengüetas (dos lugares) para abrir.

2



Ponga el cable y cierre.

■ Señal VIDEO compatible

	N° de puntos (H x V)	Frecuencia de exploración vertical (Hz)
720p	1.280 x 720p	59,94/60
1080i	1.920 x 1.080i	59,94/60
480p	720 x 480p	59,94/60
	640 x 480p	59,94/60
480i	720 x 480i	59,94/60

Notas:

- Este terminal de entrada no es para utilización con ordenadores.
- Las señales 720p/1080i serán reformateadas para poderlas ver en la pantalla LCD.

■ Frecuencia de muestreo compatible de las señales AUDIO a través de HDMI (L.PCM): 48 kHz / 44,1 kHz / 32 kHz

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 HDMI IN sólo puede utilizarse con señales de imagen 720p, 1080i, 480i o 480p. Ajuste la salida del terminal DIGITAL OUT de la caja digital sobre el aparato a 720p, 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 salida de terminal DIGITAL OUT, utilice la entrada de video componente (o la entrada S Video o la entrada Video). En este caso la imagen aparecerá como una señal analógica.

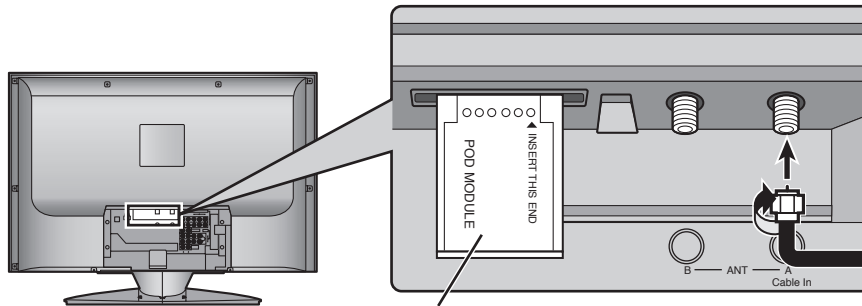
- *1. HDMI, el símbolo HDMI y la Interface de Multimedia de Alta Definición son marcas comerciales o marcas registradas de HDMI Licensing LLC.
- *2. Los perfiles EIA/CEA-861/861B cumplen con los perfiles para transmisión de video digital sin comprimir/ incluyendo la protección del contenido digital de 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 CableCARD™

CableCARD™ le permite sintonizar canales de cable digitales y de alta definición mediante la antena de cable. Consulte a su concesionario en lo que se refiere a la disponibilidad de CableCARD™.

Procedimiento

1. Conecte la antena de televisión por cable a ANTENNA (A).
2. Encienda el televisor (vea la página 15).
3. Ponga el modo de entrada en TV (vea la página 8).
4. Inserte la CableCARD™ (con el lado superior hacia fuera) en la ranura CableCARD de la parte trasera del televisor.
Siga los mensajes visualizados en la pantalla.



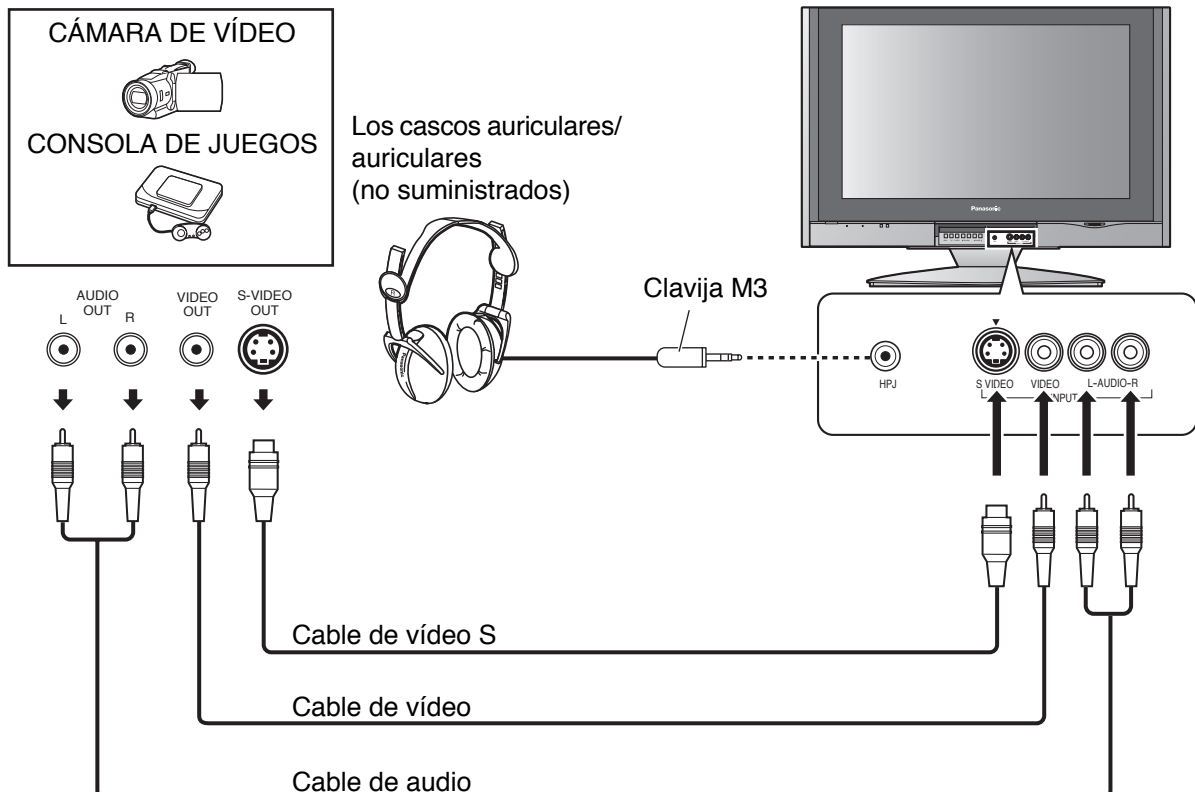
Cara superior de la tarjeta

Notas:

- Si nota retrasos en la función del teclado o control remoto cuando utiliza el CableCARD™, desenchufe el televisor y vuelva a enchufarlo y pruebe de nuevo con los controles. Si persiste esta condición, llame al Centro de Llamadas del Cliente de Panasonic para obtener más instrucciones.
- No introduzca la tarjeta PC en la ranura CableCARD™.

Conexiones del panel frontal

Ejemplo de fuente de la señal de entrada



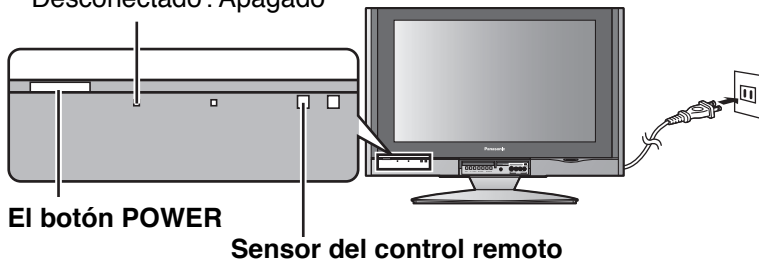
Nota:

Conecte al terminal S-VÍDEO o VÍDEO.

Encendido / apagado de la alimentación

Interruptor de la alimentación

Conectado : Rojo
Desconectado : Apagado



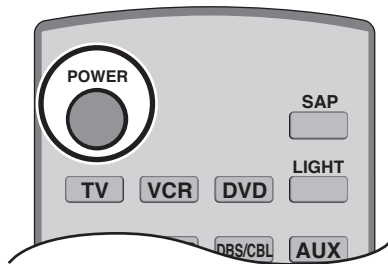
El botón POWER

Sensor del control remoto

1 Conecte el enchufe al tomacorriente.



Presiónelo para encender o apagar el televisor.



Nota:

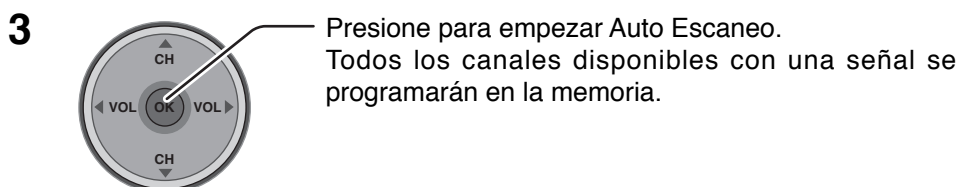
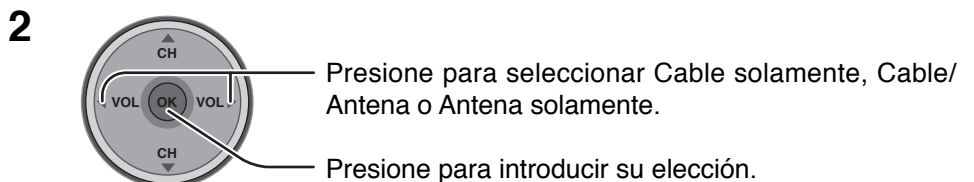
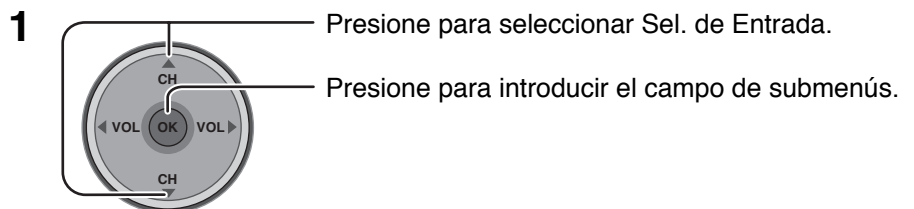
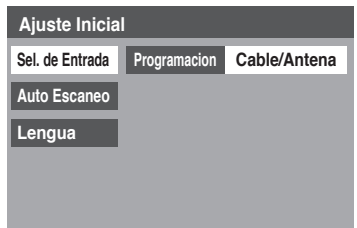
El televisor consumirá algo de energía siempre que el cable de alimentación esté conectado a una toma de corriente.

Ajuste Inicial

Para su conveniencia, el menú Ajuste 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 30-32).

Sel. de Entrada

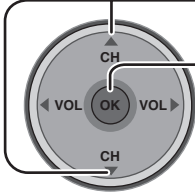
Seleccione la configuración de la entrada de RF dependiendo de la fuente de señales.



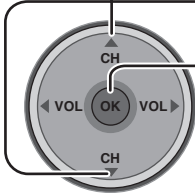
Ajuste Inicial

Auto Escaneo

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

- 

1 Presione para seleccionar Auto Escaneo.

Presione para introducir el campo de submenús.
- 

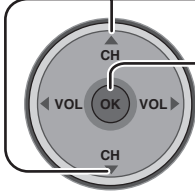
2 Presione para seleccionar el submenú.

Presione para empezar Auto Escaneo. Después de completarse Auto Escaneo, el televisor sintoniza el primer canal encontrado durante Auto Escaneo.


Ajuste Inicial	
Sel. de Entrada	Escanear Todo
Auto Escaneo	Antena (A) Analoga
Lengua	Antena (A) Analoga & Digital
	Antena (B) Analoga
	Antena (B) Analoga & Digital

Lengua

Seleccione el idioma de las visualizaciones en pantalla.

- 

1 Presione para seleccionar Lengua.


Presione para introducir el campo de submenús.
- 

2 Presione para seleccionar Ingles, Espanol o Frances.


Presione para introducir su elección.

Ajuste Inicial		
Sel. de Entrada	Programacion	Español
Auto Escaneo		
Lengua		

Para volver al menú anterior

- MENU
-  Presione para volver.

Para salir de los menús

- EXIT
-  Presione para volver a la imagen normal.



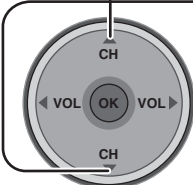

Notas:

- Si se presiona el botón EXIT en cualquier momento durante Auto Escaneo, Auto Escaneo se cancelará y el televisor volverá a el menú Ajuste Inicial.
- Si se encuentra presente un CableCARD™ durante Ajuste Inicial y Antena (A) está puesta en Cable, Antena A no será explorada debido a que el CableCARD™ provee el mapa de canales.

Para ver programas de TV

VHF y UHF



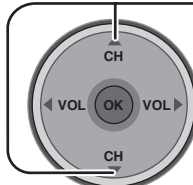


-  Presione para controlar el televisor con el control remoto.
-  Presione para encender el televisor.
-  Presione para seleccionar el canal deseado.
-  Presione para seleccionar el nivel del volumen deseado.

Notas:

- El número del canal y el nivel del volumen se fijan incluso después de apagar el televisor.
- El consumo de energía 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.

-  Presione para seleccionar 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. Apunte el control remoto hacia 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 50-55.

Navegación por menús



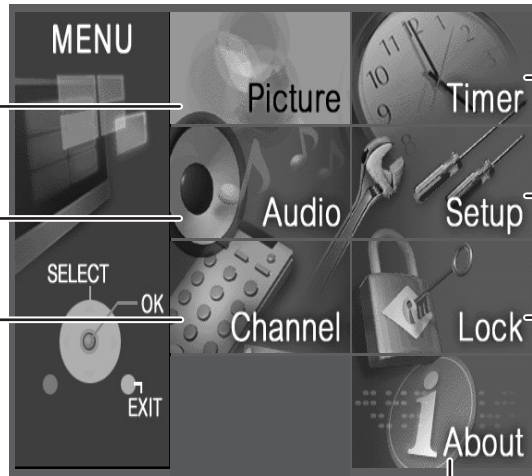
1 MENU

Presione para visualizar el menú principal.

Picture (Imagen)
(vea la página 20)

Audio
(vea la página 22)

Channel (Canal)
(vea la página 24)



Timer (Temporizador)
(vea la página 27)

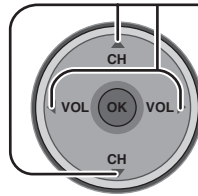
Setup (Programación)
(vea la página 30)

Lock (Bloqueo)
(vea la página 36)

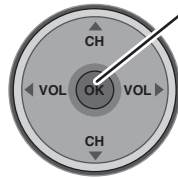
About (Acerca de)

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

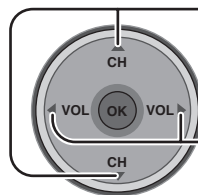
2 Presione para seleccionar el menú.



3 Presione para introducir el campo de submenú.



4 Presione para seleccionar el submenú.



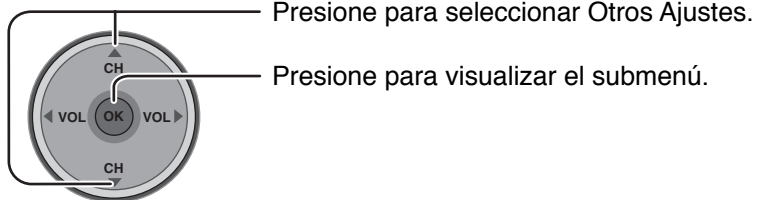
Presione para ajustar el submenú.

Ej.: Menú Picture (Imagen)

Imagen	
Modo	Vívido
Luz de Atras	63
Color	31
Tinte	31
Brillo	31
Contraste	63
Nitidez	42
Normal	Si
Otros Ajustes	

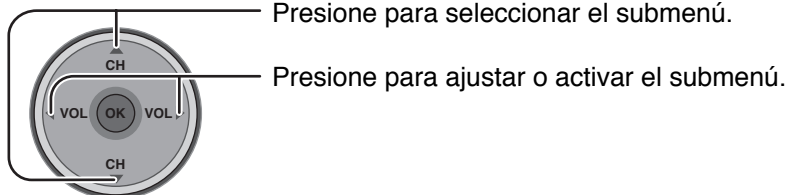
Para seleccionar el submenú Otros Ajustes

1



Otros Ajustes	
Temp Color	Azul
Imagen IA	Si
Realce Color	Si
Reduc de Ruido	No
3D Y/C Filtro	Si
Matriz Color	SD
MPEG NR	No
Ajuste Avanzado	

2



Para volver al menú anterior

MENU



Presione para volver.

Para salir de los menús

EXIT



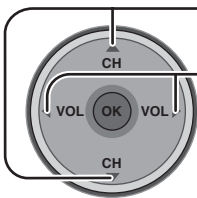
Presione para volver a la imagen normal.

Picture (Imagen)

Imagen	
Modo	Vívido
Luz de Atras	63
Color	31
Tinte	31
Brillo	31
Contraste	63
Nitidez	42
Normal	Si
Otros Ajustes	

Modo

Le permite elegir los modos de imagen preestablecidos más apropiados para el programa que usted está viendo. Esta función también afecta al ajuste Temp Color (vea la página 21).



Presione para seleccionar Modo.

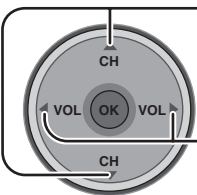
Presione para seleccionar el modo de imagen.

- Vívido (predeterminado) : Provee un contraste y una nitidez de imagen realzados para ver programas en una habitación bien iluminada.
- Estandar : Recomendado para ver bajo condiciones normales en una habitación con iluminación atenuada.
- Cinema : Para ver películas en una habitación oscura. Proporciona una imagen suave, como la del cine.
- Usuario : Puede personalizar los ajustes de imagen según sus preferencias. (vea la página 21, Ajuste Avanzado)
- Auto : Capta automáticamente las condiciones de la luz ambiental y ajusta el brillo y la gradación en consecuencia para poder optimizar el contraste.

Notas:

- Cada modo tiene sus propios ajustes de imagen (Luz de Atras, Color, Tinte, Brillo, Contraste y Nitidez).
- El ajuste personalizado se guarda para TV, Video1, Video2, Video3, Componente1, Componente2, HDMI y el modo de operaciones de la tarjeta individualmente.

Luz de Atras / Color / Tinte / Brillo / Contraste / Nitidez / Normal

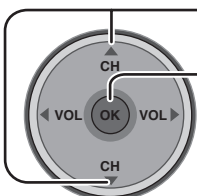


Presione para seleccionar el submenú.

Presione para ajustar el submenú.

Elemento	Explicaciones
Luz de Atras	Ajusta la luminancia de la luz de fondo.
Color	Ajusta la intensidad de color deseada.
Tinte	Ajusta los tonos naturales de la piel.
Brillo	Ajusta las partes oscuras de la imagen.
Contraste	Ajusta las partes blancas de la imagen.
Nitidez	Ajusta la calidad de los detalles.
Normal	Repone los ajustes de imagen a los ajustes predeterminados en fábrica.

Otros Ajustes

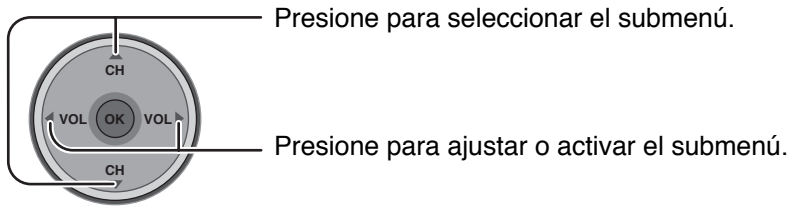


Presione para seleccionar Otros Ajustes.

Presione para visualizar el submenú.

Otros Ajustes	
Temp Color	Azul
Imagen IA	Si
Realce Color	Si
Reduc de Ruido	No
3D Y/C Filtro	Si
Matriz Color	SD
MPEG NR	No
Ajuste Avanzado	

■ Temp Color / Imagen IA / Realce Color / Reduc de Ruido / 3D Y/C Filtro / MPEG NR

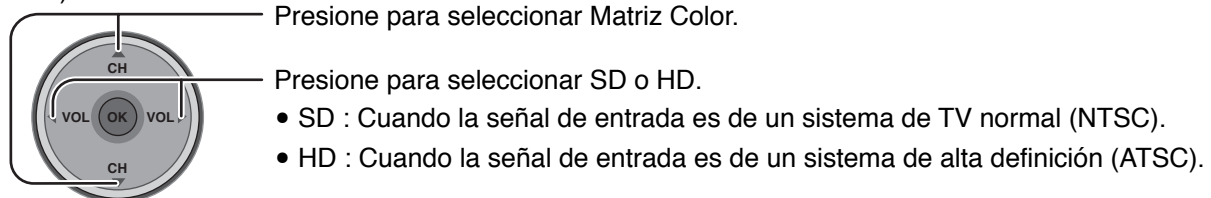


Elemento	Explicaciones
Temp Color	Para aumentar o disminuir los colores Warm (rojo) y Cool (azul) según las preferencias personales.
Imagen IA	Visualiza el blanco y negro más vívidamente cuando está encendido.
Realce Color	Para aumentar la gama de reproducción de colores con gradación de colores natural y tonos sumamente delicados.
Reduc de Ruido	Reduce el ruido, comúnmente conocido como nieve. Déjelo apagado cuando reciba una señal fuerte.
3D Y/C Filtro	Minimiza el ruido y la diafotía cromática de la imagen.
MPEG NR	Se reducirá el ruido exclusivo de DVD, STB, etc.

■ Matriz Color

Visualiza señales de entrada 480p en color natural de fuentes de vídeo digital conectadas 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).

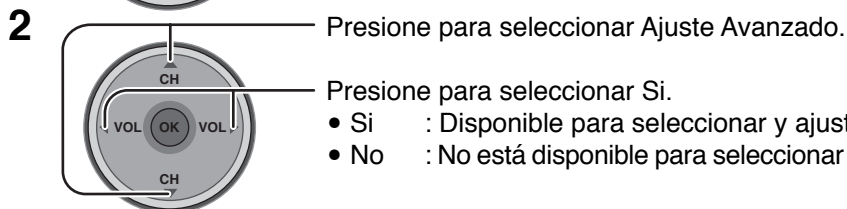
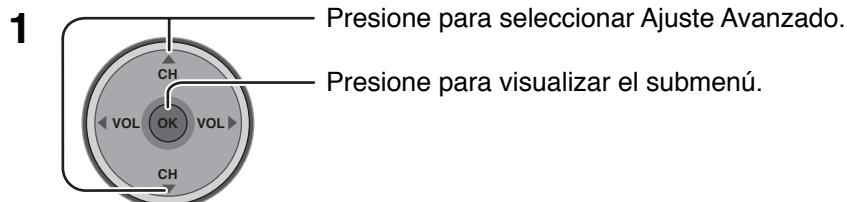


Notas:

- 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.

■ Ajuste Avanzado

Esta función solamente estará disponible cuando usted seleccione Usuario en Modo.



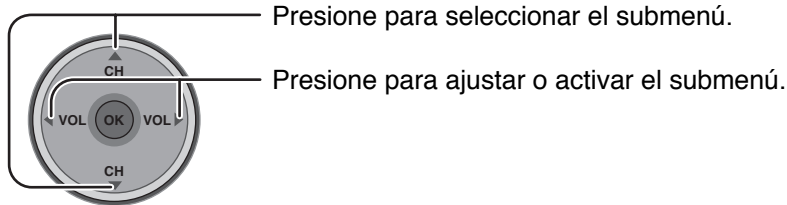
Ajuste Avanzado	
Ajuste Avanzado	SI
Trans. B & N	Medio
Resolución	Medio
Aj. de Gamma	Medio
Exp. de Negro	8
Aj. de Caracter	8
Normal	SI

Elemento	Explicaciones
Trans. B & N	Mejora los bordes en el fondo para reducir la sobretoma y mejorar la sensación de profundidad.
Resolución	Enfatiza la nitidez en densidad de muchos colores diferentes.
Aj. de Gamma	Aumenta el brillo de los rangos centrales para mejorar los detalles y el contraste en escenas oscuras.
Exp. de Negro	Mejorará el nivel de contraste.
Aj. de Caracter	Hace más brillantes a los caracteres blancos.
Normal	Repone todos los ajustes avanzados a sus valores de fábrica.

Audio

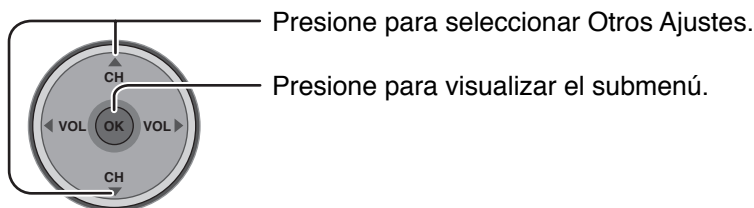
Audio	
Bajos	7
Altos	7
Balance	31
Normal	Si
Otros Ajustes	

Bajos / Altos / Balance / Normal



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

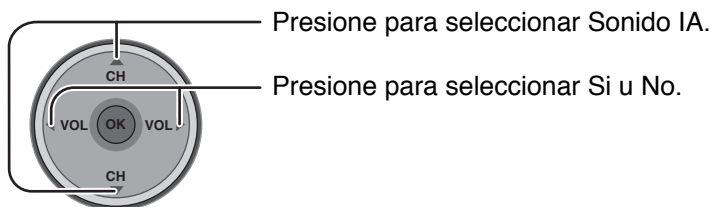
Otros Ajustes



Otros Ajustes	
Sonido IA	Si
Envolvente	No
Altavoces	Si
Ent. HDMI	Auto

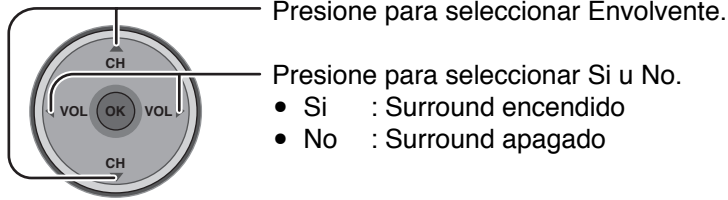
■ Sonido IA

Iguala los niveles de volumen generales en todos los canales.



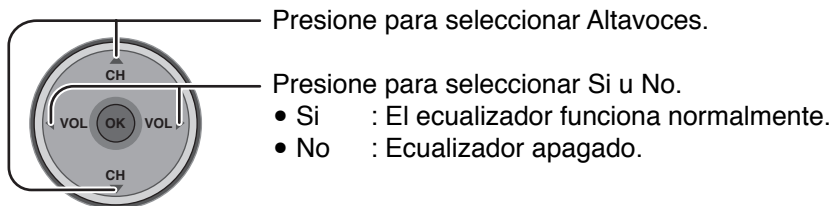
■ Envolvente

Mejora la respuesta de audio cuando se escucha sonido estéreo.



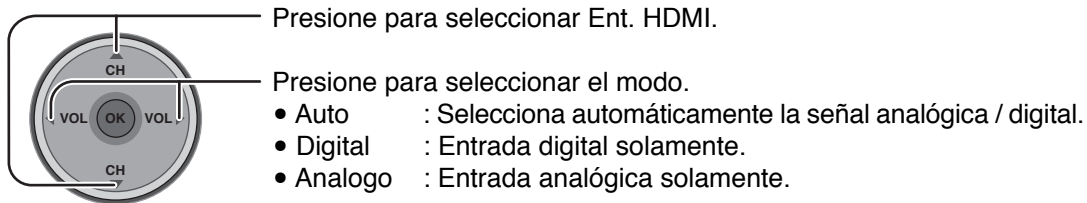
■ Altavoces

Esta función hace que la voz suene clara.



■ Ent. HDMI

Cuando se utiliza HDMI (vea la página 13), esta función le permitirá cambiar entre entrada analógica y entrada digital.

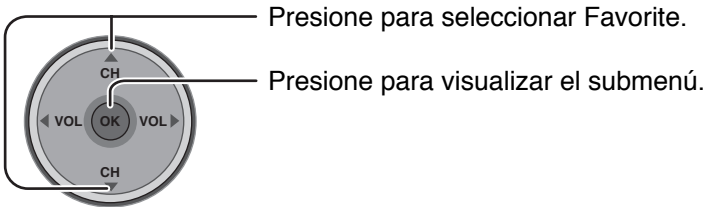


Channel (Canal)

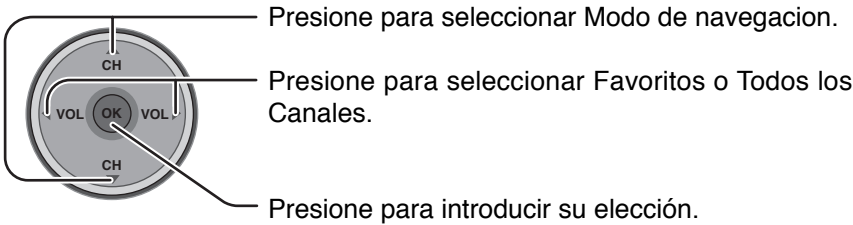


Favoritos

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

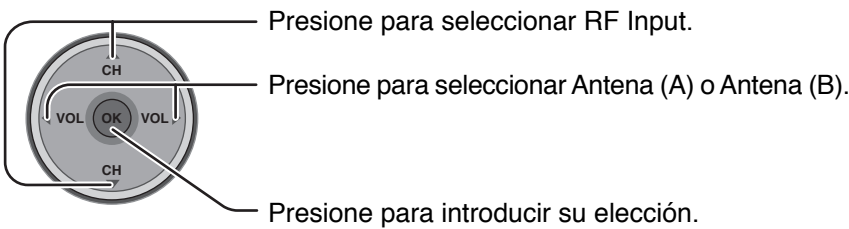


■ Modo de navegación

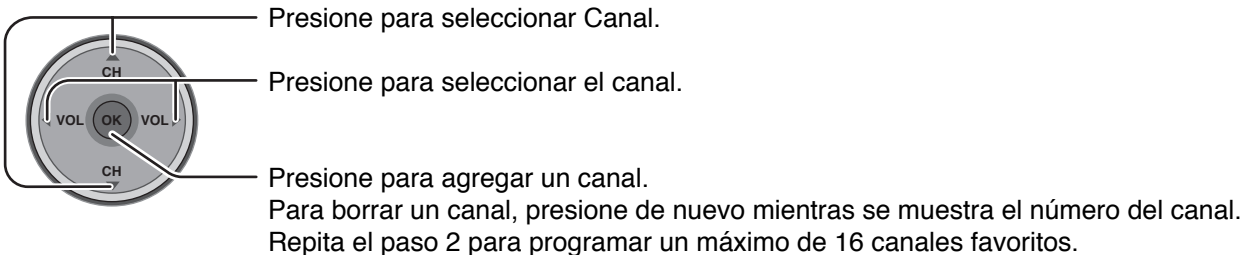


Favoritos	
Modo de navegación	< Todos los Canales >
Entrada de RF	Antena (A)
Canal	A: 2
16 canales favoritos maximo.	
--	--
--	--
--	--
--	--

■ Entrada de RF

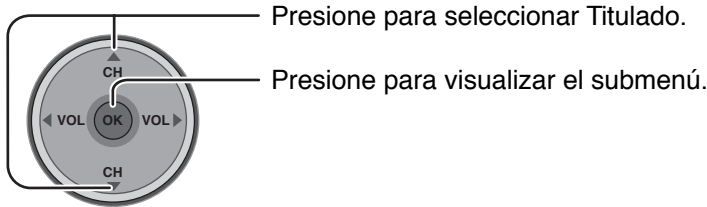


■ Canal



Titulado

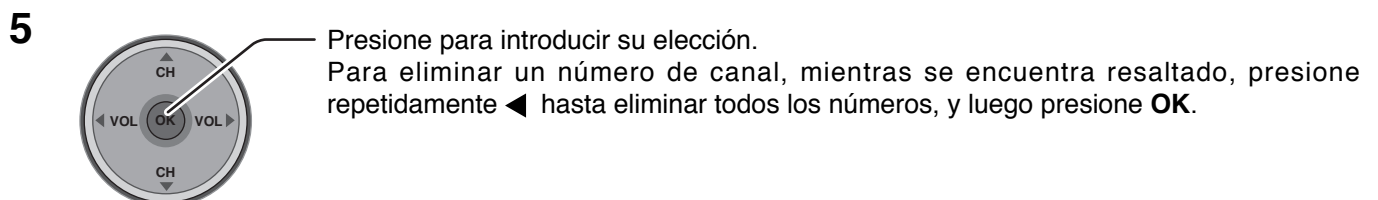
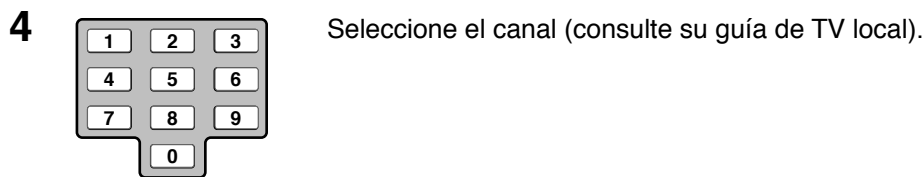
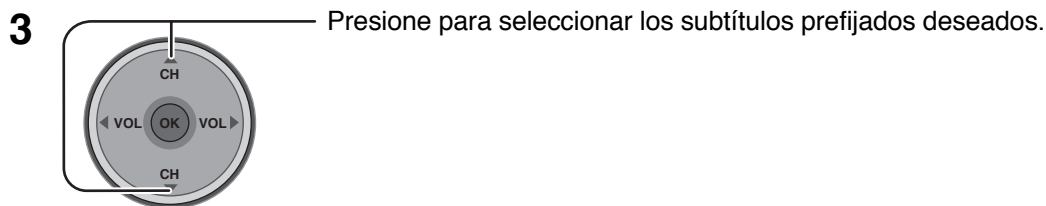
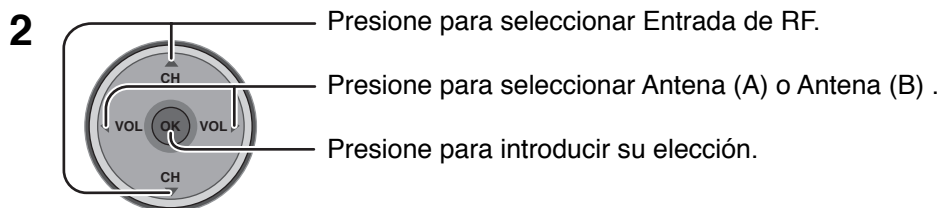
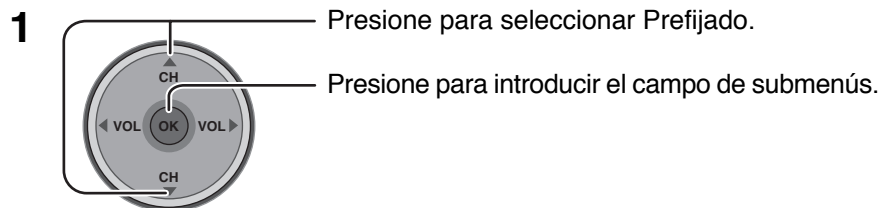
Para introducir etiquetas manuales y prefijadas en las emisoras deseadas. También para introducir etiquetas de entrada en las entradas de video.



■ Prefijado

Para introducir números de canales para emisoras de TV populares.

Titulado		
Prefijado	Entrada de RF	Antena (A)
Titulos Manuales	ABC	
Ponga Titulo	CBS	
	FOX	
	NBC	
	PBS	
	CNN	
	ESPN	
	HBO	



Nota:

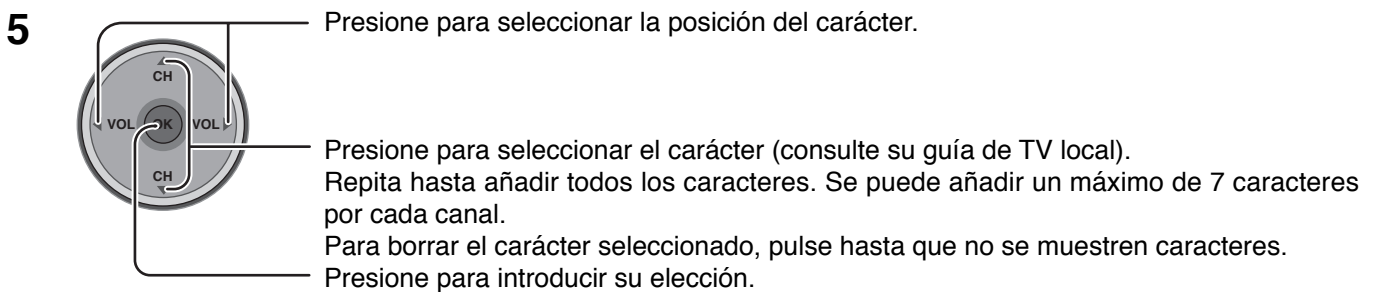
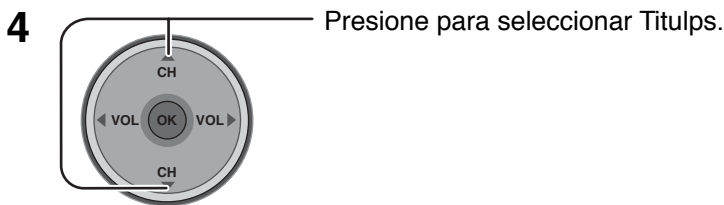
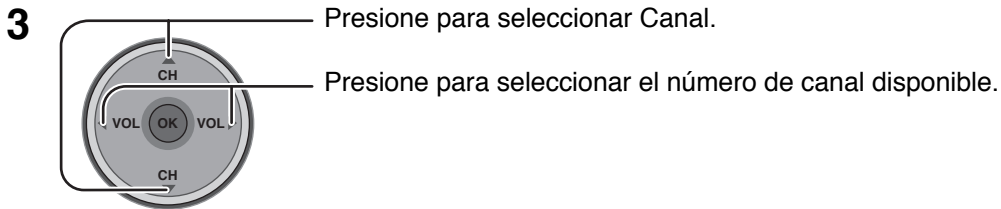
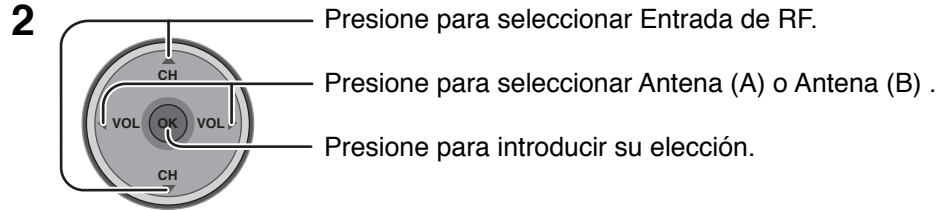
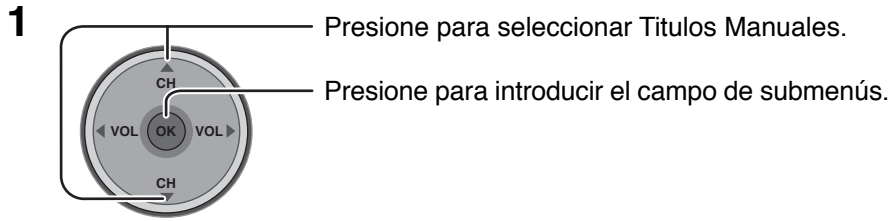
Sólo se pueden seleccionar entradas con señales.

Navegación por menús

■ Titulos Manuales

Para introducir números y subtítulos manualmente.

Titulado		
Prefijado	Entrada de RF	Antena (A)
Titulos Manuales	Canal	A: 2
Ponga Titulo	Titulos	

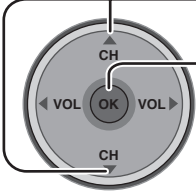


Nota:

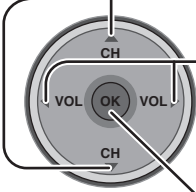
Sólo se pueden seleccionar entradas con señales.

■ Ponga Titulo

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

- 1**
- 
- Presione para seleccionar Ponga Titulo.
 - Presione para introducir el campo de submenús.

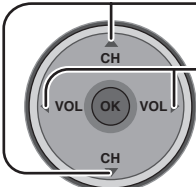
Titulado	
Prefijado	Componente 1
Titulos Manuales	Componente 2
Ponga Titulo	HDMI
	Video 1
	Video 2
	Video 3

- 2**
- 
- Presione para seleccionar la entrada de video.
 - Presione para seleccionar la etiqueta de video prefijada.
 - Para eliminar las etiquetas de entrada, presione hasta que no se muestren etiquetas, y luego presione el botón **OK** para introducción su elección.
 - Para saltar la entrada, seleccione **BRINCAR**. La entrada se omitirá cuando presione **TV/VIDEO**.
 - Presione para introducir su elección.

Cronometro

Cronometro	
Apagado	No
Cronometro	
Reloj	--:-- --
Aj. de Dia	---

Apagado

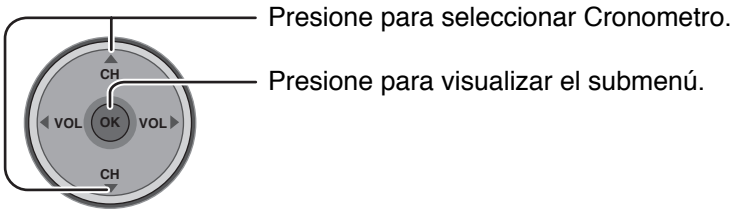
- 
- Presione para seleccionar Apagado.
 - Presione para seleccionar la hora para dormir (No, 30, 60 o 90).
 - Para apagar el temporizador, seleccione No.
 - Para confirmar el tiempo restante, presione el botón **RECALL** (vea la página 8).

Navegación por menús

Cronometro

Ponga la hora el Reloj (vea la página 29) antes de poner el Cronometro.

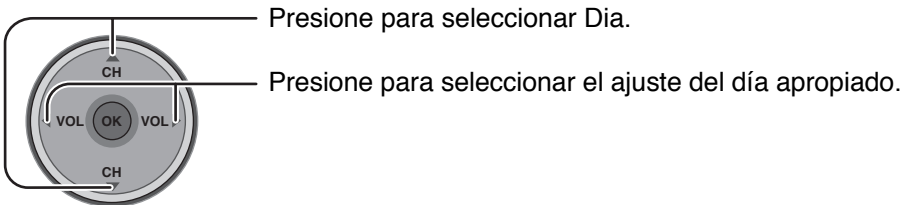
Ponga el Cronometro para encender y apagar el televisor a las horas seleccionadas y en el día seleccionado.



Cronometro	
Apagado	No
Cronometro	
Reloj	12 : 01 AM
Aj. de Dia	LUN

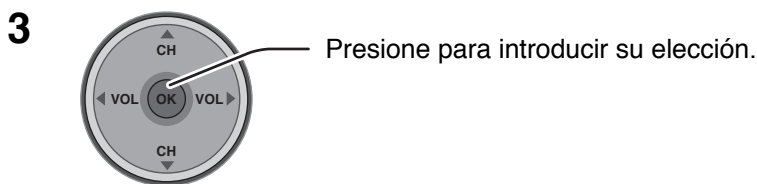
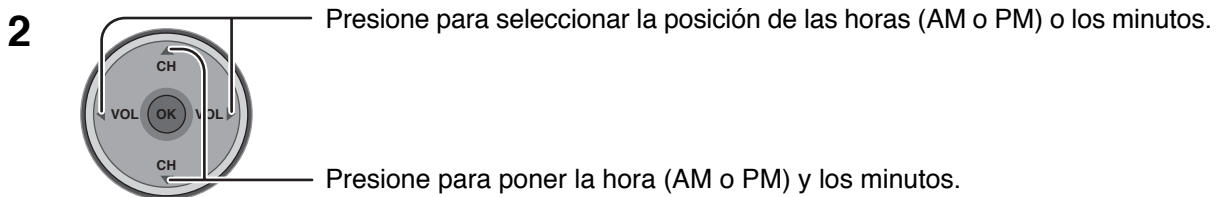
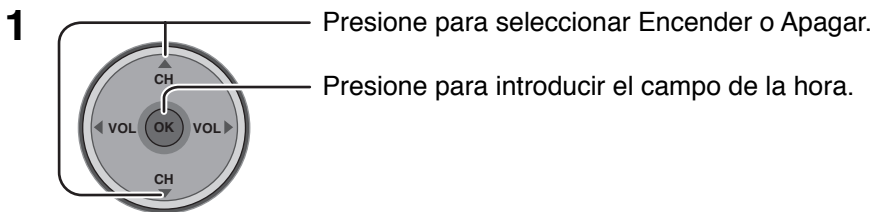


■ Dia



Cronometro	
Dia	LUN-VIE
Encender	7 : 10 AM
Apagar	8 : 10 PM
Fijar	Activar

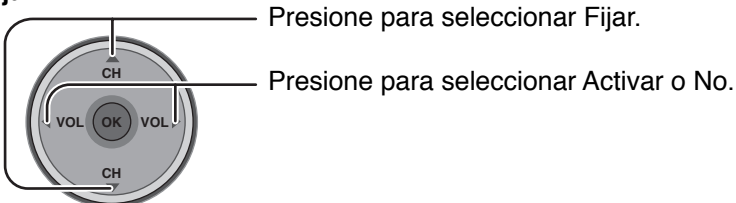
■ Encender / Apagar



Notas:

- El televisor se apaga automáticamente después de pasar 90 minutos cuando se enciende mediante el Cronometro. Esto se cancelará si se selecciona Apagar 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.

■ Fijar

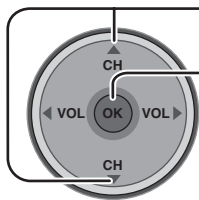


Para activar el temporizador

Seleccione el canal y apague el televisor.

Reloj

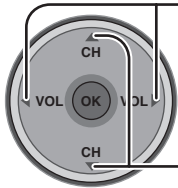
1



Presione para seleccionar Reloj.

Presione para introducir el campo de la hora.

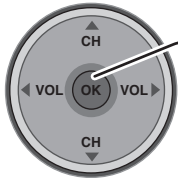
2



Presione para seleccionar la posición de las horas (AM o PM) o los minutos.

Presione para poner la hora (AM o PM) y los minutos.

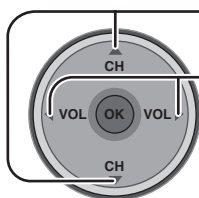
3



Presione para introducir su elección.

Aj. de Dia

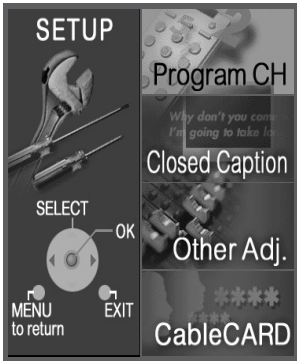
Ponga el día de la semana.



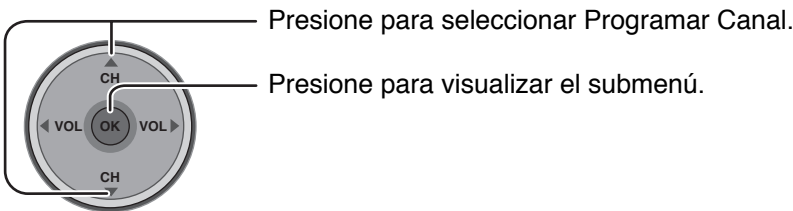
Presione para seleccionar Aj. de Dia.

Presione para seleccionar el día de la semana.

Setup (Programación)

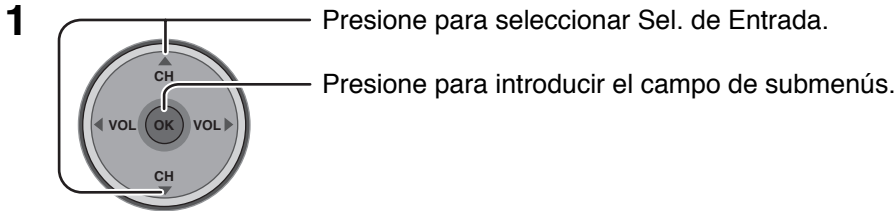


Programar Canal

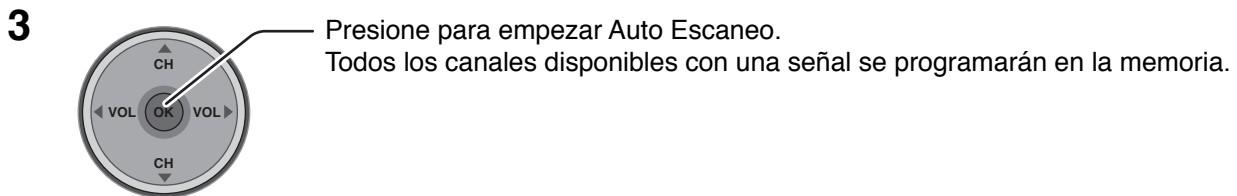
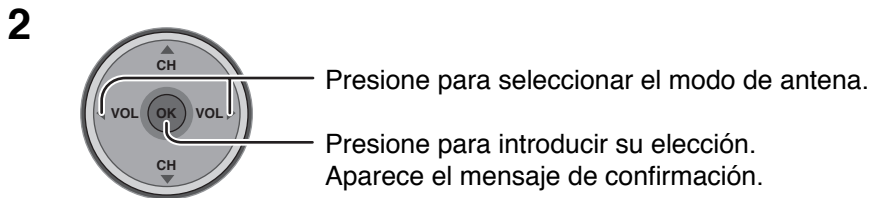


■ Sel. de Entrada

Le permite especificar el modo de antena (Cable Solamente, Cable/Antena o Antena Solamente).



Programar Canal		
Sel. de Entrada	Programacion	Cable/Antena
Auto Escaneo		
Prog. Manual		
Medidor de señal		
Lengua		

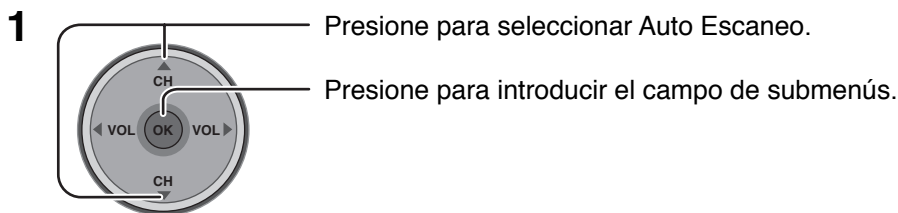


Notas:

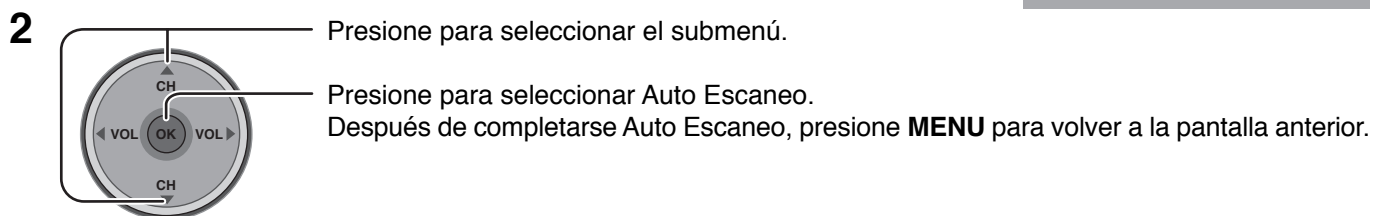
- Auto Escaneo es necesario para cuando usted selecciona la señal de entrada por primera vez o siempre que usted cambia la configuración de la antena.
- Si no está insertado el CableCARD™, Exploración automática realizará Escanear Tado.
- Cuando esté insertado el CableCARD™ y se seleccione Cable Solamente, Auto Escaneo se omitirá.
- Cuando esté insertado el CableCARD™ y se seleccione Cable/Antena, Auto Escaneo realizará Antena (B) Analoga & Digital.
- Para poder seleccionar manualmente Antena B desde el control remoto, tendrá que realizar en primer lugar Exploración automática.

Auto Escaneo

Explora automáticamente todos los canales disponibles Antena (A) Analoga, Antena (A) Analoga & Digital, Antena (B) Analoga y Antena (B) Analoga & Digital.

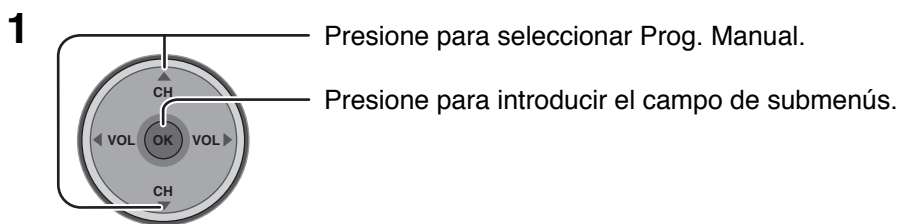


Programar Canal	
Sel. de Entrada	Escanear Todo
Auto Escaneo	Antena (A) Analoga
Prog. Manual	Antena (A) Analoga & Digital
Medidor de señal	Antena (B) Analoga
Lengua	Antena (B) Analoga & Digital

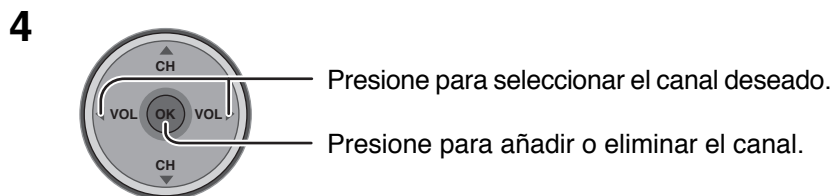
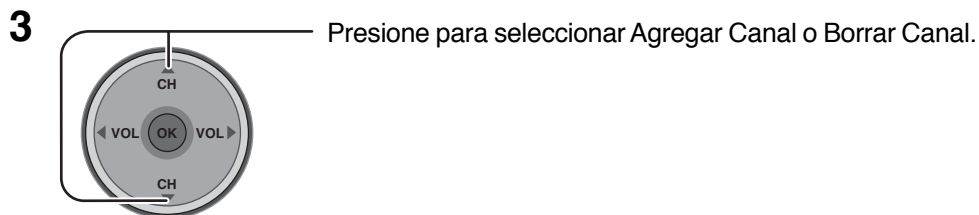
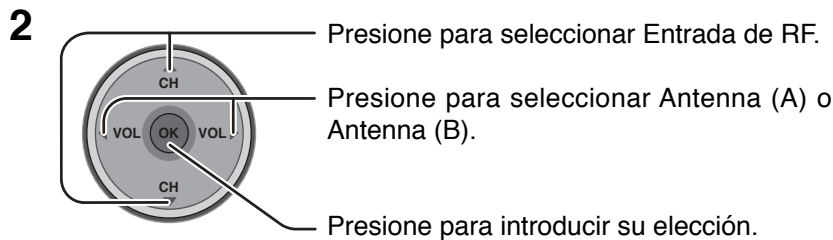


Prog. Manual

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



Programar Canal		
Sel. de Entrada	Entrada de RF	Antena (A)
Auto Escaneo	Agregar Canal	A: 1
Prog. Manual	Borrar Canal	A: 2
Medidor de señal		
Lengua		

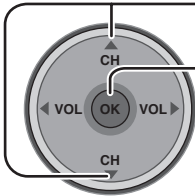


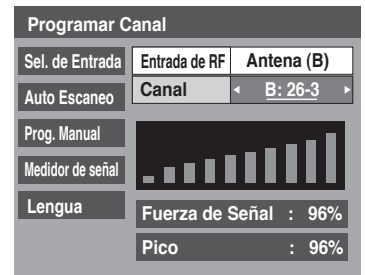
Navegación por menús

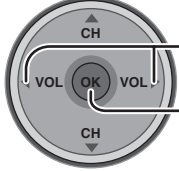
■ Medidor de señal

(Para canales digitales solamente)

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

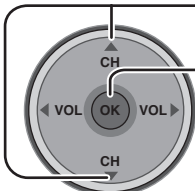
- 1**
- 
- Presione para seleccionar Medidor de señal.
 - Presione para introducir el campo de submenús.

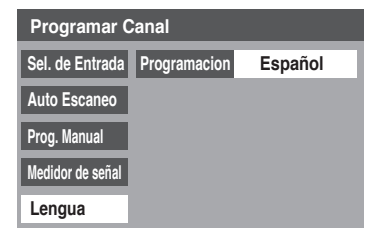


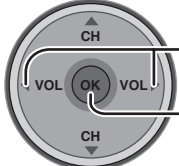
- 2**
- 
- Presione para seleccionar el Canal deseado.
 - Presione para mostrar Fuerza de Señal.
El color de la barra de señal indica generalmente la intensidad de la señal recibida.
Verde - Señal adecuada para tener una buena recepción.
Amarillo - Señal de mala intensidad.
Rojo - Señal de intensidad muy pobre.

■ Lengua

Le permite seleccionar el idioma seleccionado en las visualizaciones en pantalla.

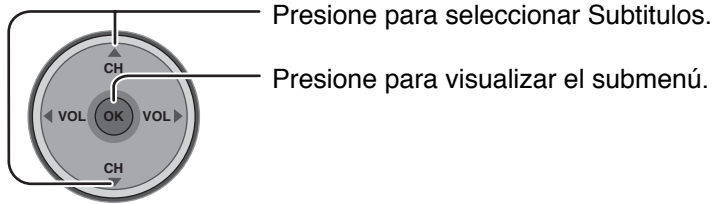
- 1**
- 
- Presione para seleccionar Lengua.
 - Presione para introducir el campo de submenús.



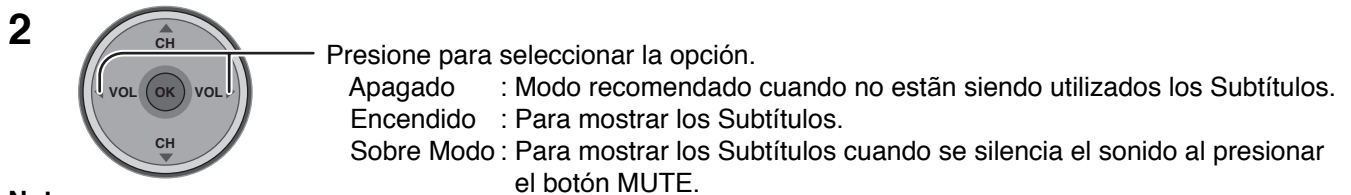
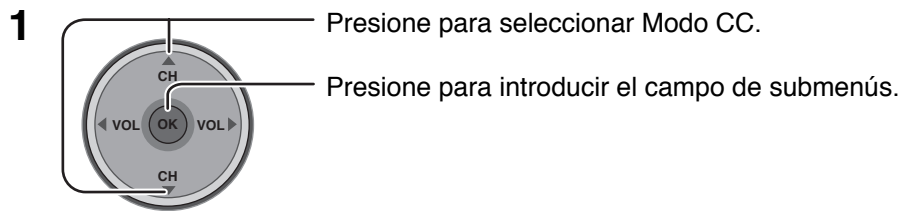
- 2**
- 
- Presione para seleccionar Ingles, Espanol o Frances.
 - Presione para introducir su elección.

Subtítulos

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.



■ Modo CC



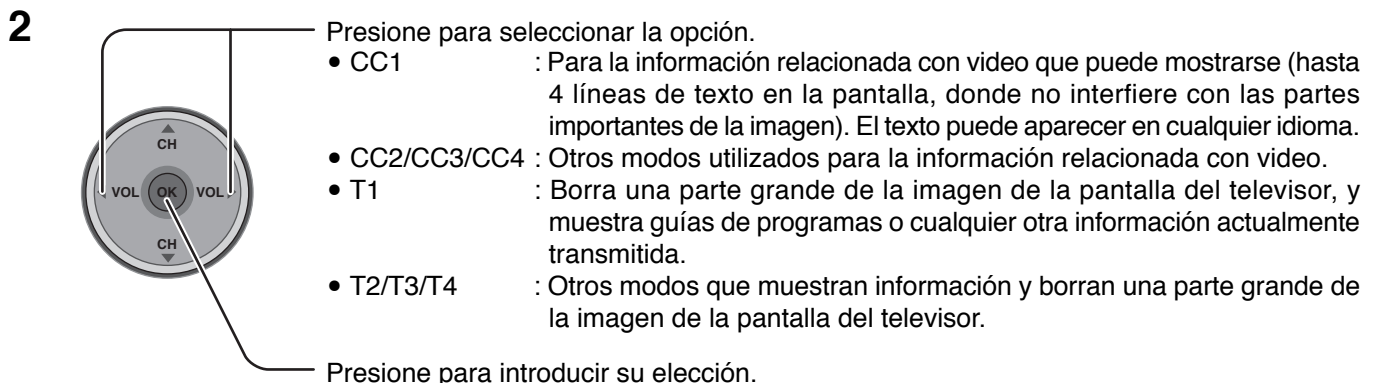
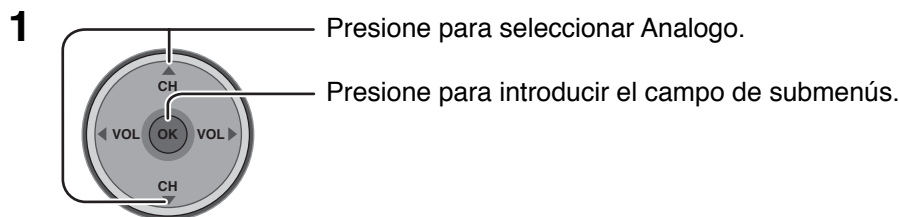
Subtítulos		
Modo CC	Programación	Apagado
Analogo		
Digital		

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 Encendido/ Apagado de títulos ocultos en el equipo conectado. Modo CC 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 Modo CC del televisor en Apagado y seleccione la opción Encendido/Apagado en el equipo conectado. Los subtítulos ocultos digitales se superpondrán si la opción de los subtítulos ocultos es Encendido en el televisor y en el equipo conectado.

■ Analogo

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



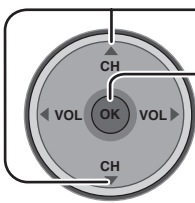
Subtítulos		
Modo CC	Servicio	CC1
Analogo		
Digital		

Navegación por menús

■ Digital

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

1

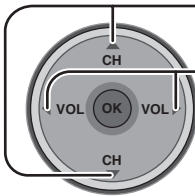


Presione para seleccionar Digital.

Presione para introducir el campo de submenús.

Subtítulos		
Modo CC	Servicio	Principal
Analogo	Letra	Automatico
Digital	Tamaño	Automatico
	Estilo	Automatico
	Colores	
	Restaurar	
Sample CC Text		

2



Presione para seleccionar el submenú.

Presione para seleccionar la opción.

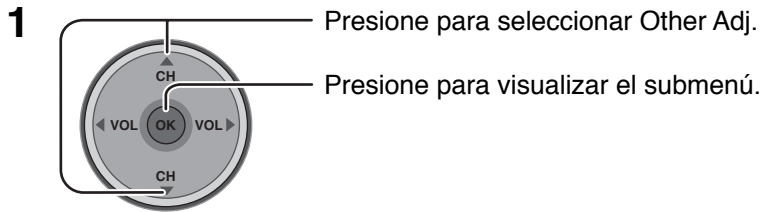
- Servicio : Principal, Secundario, Servicio 3, Servicio 4, Servicio 5, Servicio 6
- Letra : Automatico, Seleccion de fabrica, Mono-lineal, Prop-lineal, Mono, Prop, Casual, Letra Cursiva, Minusculas
- Tamaño : Automatico, Normal, Chico, Grande
- Estilo : Automatico, Ninguna, Elevado, Deprimido, Uniforme, Sombra
- Colores : Frente El color de la fuente (Automatico, Negro, Blanco, Rojo, Verde, Azul, Amarillo, Magenta, Cyan)
Opacidad frontal ... La opacidad del texto (Automatico, Transparente, Translucido, Solido, Titilante)
- Fondo El color de la caja de texto (Automatico, Negro, Blanco, Rojo, Verde, Azul, Amarillo, Magenta, Cyan)
- Fond Oscuro La opacidad de la caja de texto (Automatico, Transparente, Translucido, Solido, Titilante)
- Contorno El contorno del filo de sombra (si se selecciona en estilo) (Automatico, Negro, Blanco, Rojo, Verde, Azul, Amarillo, Magenta, Cyan)
- Restaurar : Repone los ajustes CC digitales.

3

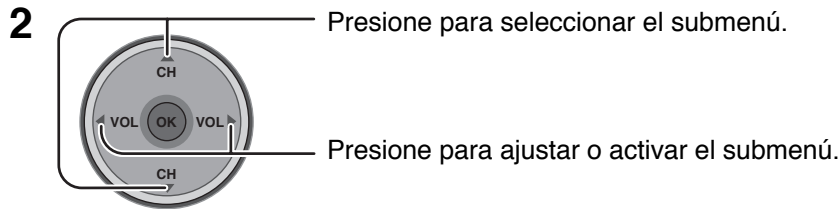


Presione para introducir su elección.

Other Adj. (Otro ajuste)



Otros Ajustes	
Autoencendido	No
Econ Energía	Std.
Ajuste Acerc.	



■ Autoencendido (Si o No)

Seleccione Si para encender el televisor al mismo tiempo que el receptor de cable u otros componentes conectados.

■ Econ Energía (Std. o Ahor.)

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

■ Ajuste Acerc.

Ajuste la posición del zoom.

Funciona cuando el modo Aspect (Aspecto) es Acerc.

- Tamaño : Ajusta el tamaño vertical.
- Posicion Vert : Ajusta la posición vertical.

Ajuste Acerc.	
Tamaño	4
Posicion Vert	0
Normal	Si

CableCARD™

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

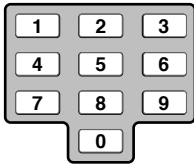
Notas:

- Si no está insertado el CableCARD™ y usted accede a la información CableCARD™ (Tarjeta de cable) aparece el mensaje "No se detecta modulo 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.

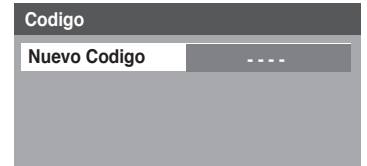
Lock (Bloqueo)

Cuando entre en el menú de Lock por primera vez, se visualizará la pantalla de ajuste de Nuevo Código.

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



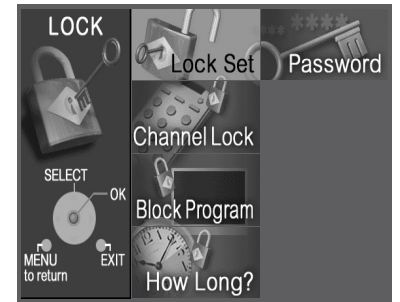
Introduzca una contraseña de 4 dígitos.



Notas:

- Utilice una clave que sea fácil de recordar, anótelas y guárdela en un lugar seguro.
- Si selecciona Siempre para Cuanto tiempo? (vea la página 39) y olvida su código secreto, usted deberá acudir a un técnico cualificado para que cancele el ajuste de bloqueo de su televisor.

A partir de la segunda vez, introduzca la contraseña que haya establecido para visualizar el submenú.



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).

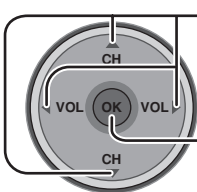
Nota:

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

Mensaje	Causa posible
Ent. de Video Bloqueada.	Se selecciona Bloquear Juego.
Bloquea canales. Presione OK para codificar para desbloqueo temporaneo.	Se selecciona Bloqueo de Canal.
Excede clasificacion permitida Presione OK para codificar para desbloqueo temporaneo.	Se ha sobrepasado el nivel de la clasificación.

Lock Set (Bloqueo)

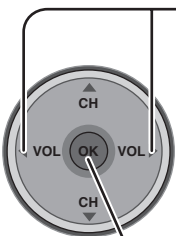
Seleccione Lock Set (Bloqueo) para impedir videojuegos, cintas de videocasetera, canales y modos de video.



Presione para seleccionar Bloqueo.

Presione para visualizar el submenú.

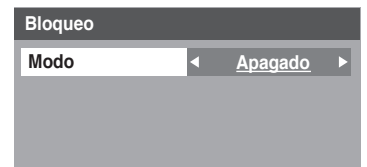
Modo



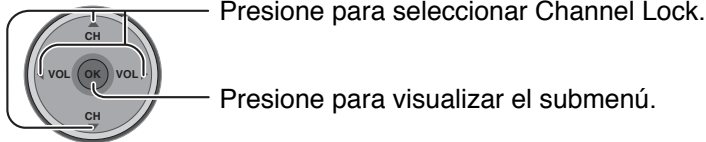
Presione para seleccionar la opción.

- Apagado : Apaga las funciones de Bloqueo.
- Bloqueo Total : Todos los canales quedan bloqueados independientemente del nivel de clasificación.
- Bloquear Juego : Bloquea los canales 3 y 4 y las entradas de video.
- Bloqueo de Canal : Bloquea canales analógicos y digitales específicos. Para ver uno cualquiera de los canales bloqueados se necesita introducir una contraseña.

Presione para introducir su elección.

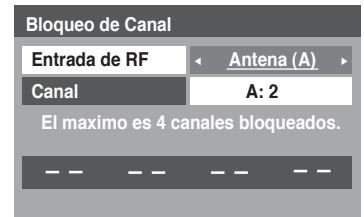
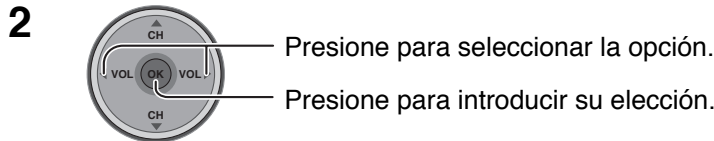
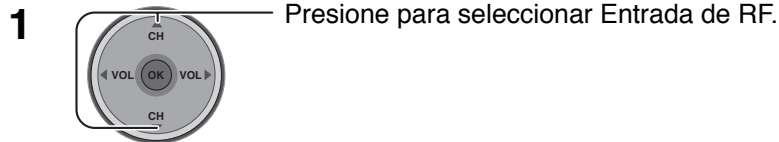


Channel Lock (Bloqueo de Canal)



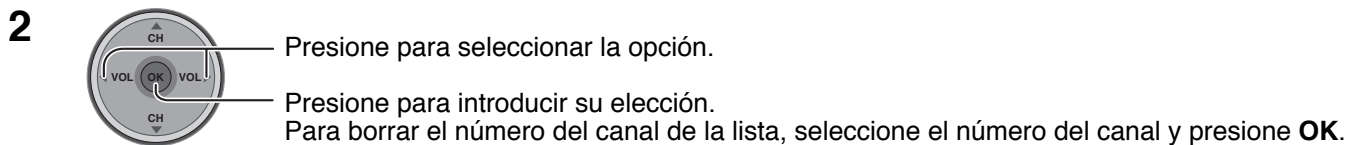
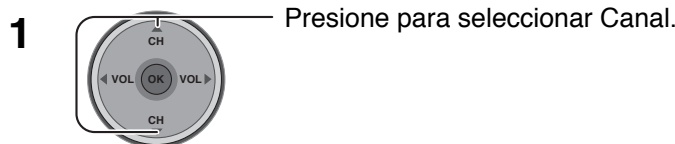
■ Entrada de RF

Seleccione Antena (A) o Antena (B).



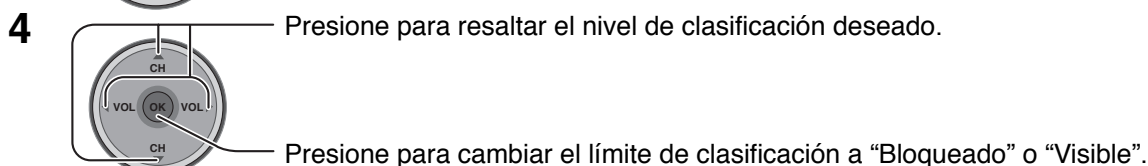
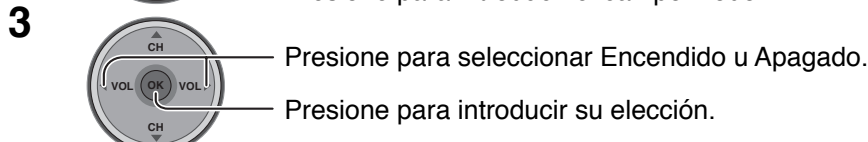
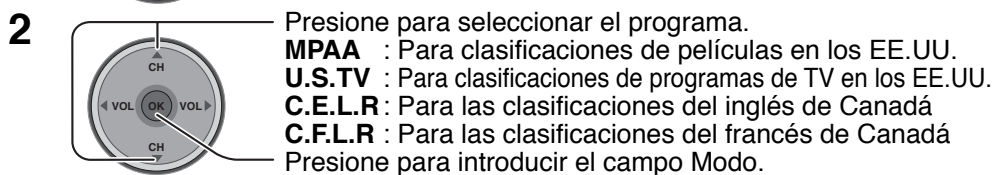
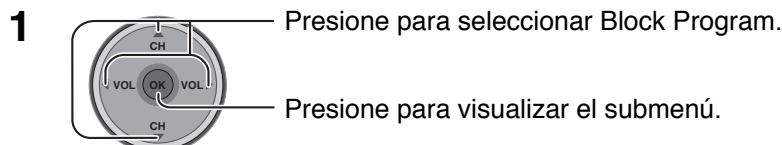
■ Canal

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



Block Program (Bloqueo de Programa)

Este televisor incorpora la tecnología V-CHIP para bloquear películas o programas de televisión según la categoría de la clasificación. Hay cuatro (4) 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.



Bloqueo de Programa		
MPAA	Modo	Apagado
U.S.TV	NR	Visible
C.E.L.R	G	Visible
C.F.L.R	PG	Visible
	PG-13	Visible
	R	Visible
	NC-17	Visible
	X	Visible

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

Esta guía tiene 7 niveles de clasificaciones basadas en edades que pueden ser elegidas. Estos 7 niveles están divididos en 2 grupos según la edad: clasificaciones basadas en juventud (Youth) y clasificaciones basadas en orientación (Guidance). Algunas de estas clasificaciones por edad también tienen clasificaciones por contenido, denominadas como D (Diálogo), L (Lenguaje), S (Sexo) y V (Violencia).

TV-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	DIALOGO 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.

GRÁFICA DE CALIFICACIONES PARA INGLÉS DE CANADÁ

E	Exenta - La programación exenta incluye: noticias, deportes, documentales y otros programas de información, entrevistas, vídeos musicales y programas de variedades.
C	Programación para niños menores de 8 años. Sin lenguaje ofensivo, desnudos ni contenido sexual.
C8+	Programación considerada generalmente aceptable para niños de 8 años y menos. Sin blasfemias, desnudos ni contenido sexual.
G	Programación general para todos los públicos.
PG	Se sugiere la supervisión de los padres. Algún material puede no ser apropiado para los niños.
14+	La programación contiene temas que pueden no ser apropiados para el público menor de 14 años. A los padres se les avisa que no deben dejar ver estos programas a los niños ni a los jóvenes menores de 14 años.
18+	Mayores de 18 años. Programación limitada a los adultos. Contiene escenas de violencia constante o de excesiva violencia.

GRÁFICA DE CALIFICACIONES PARA FRANCÉS DE CANADÁ

E	Exenta - La programación exenta.
G	General - Programación para público de todas las edades. No contiene violencia, o el contenido de la misma es mínimo o se muestra apropiadamente.
8 ANS+	8+ General - No se recomienda para los niños pequeños. La programación es para un público diverso, pero contiene violencia de vez en cuando. Se recomienda la supervisión de adultos.
13ANS+	La programación tal vez no sea adecuada para niños menores de 13 años. Contiene pocas escenas de violencia o una o más escenas suficientemente violentas como para afectarlos. Se recomienda encarecidamente la supervisión de personas adultas.
16ANS+	La programación puede que no sea apropiada para menores de 16 años. Contiene frecuentes escenas de violencia o de mucha violencia.
18ANS+	Mayores de 18 años. Programación limitada a los adultos. Contiene escenas de violencia constante o de mucha violencia.

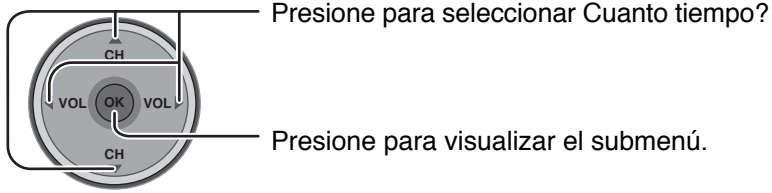
Precauciones del cliente

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".

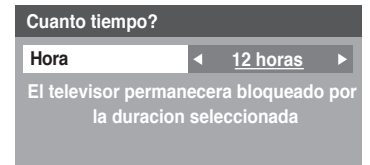
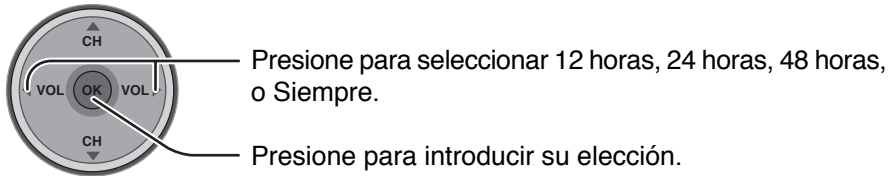
- Anuncios de emergencia (mensajes EAS, avisos del tiempo y otros)
- Programas locales • Noticias • Política • Anuncios de servicios públicos • Religión • Deportes • Tiempo

Cuanto tiempo?

Los ajustes de bloqueo permanecen durante el tiempo seleccionado.



■ Hora

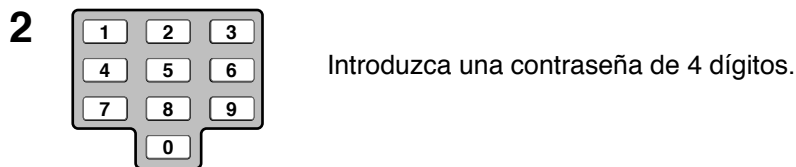
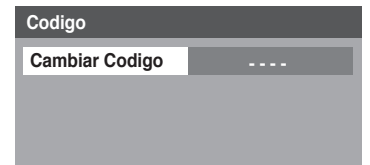
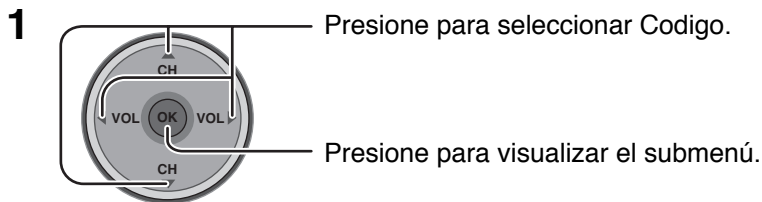


Nota:

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

Codigo

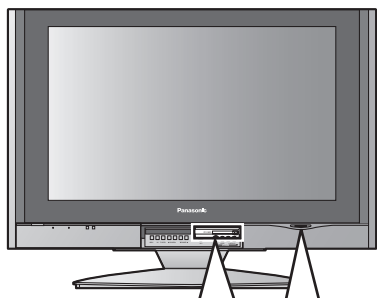
Puede cambiar la contraseña.



Operaciones de la tarjeta

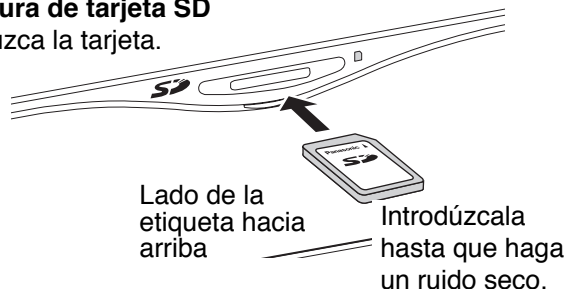
Esta función le permite visualizar imágenes fijas (JPEG) o imágenes animadas (MPEG4) grabadas con esta unidad o con una cámara digital en una tarjeta de memoria insertando la tarjeta en la ranura de tarjeta apropiada.

Introducción y extracción de una tarjeta

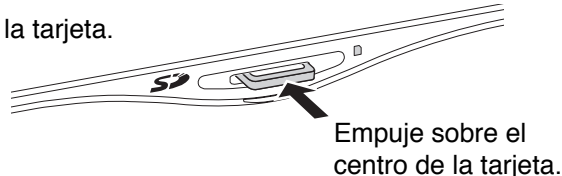


■ Ranura de tarjeta SD

Introduzca la tarjeta.



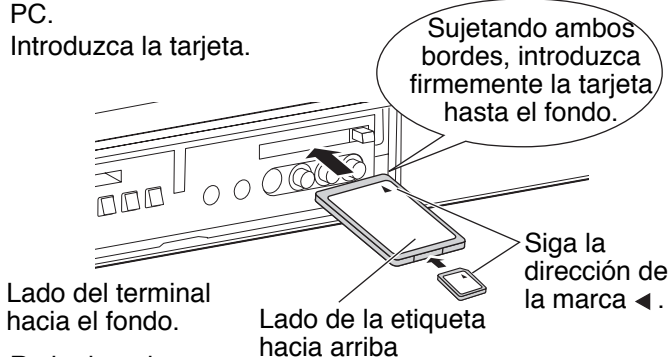
Retire la tarjeta.



■ Ranura de tarjeta PC

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

Introduzca la tarjeta.



Retire la tarjeta.



Si el botón de expulsión no sale al exterior

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

Nota:

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

Tarjetas compatibles y tamaño de tarjetas

Ranura de tarjeta SD

- SD Card (1GB)
- Multi Media Card (128MB)
- miniSD Card* (128MB)

Ranura de tarjeta PC

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

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

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

- Esta función no es compatible con disco duro 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 PC en las ranuras, la tarjeta SD tendrá prioridad.

■ Protección de datos de tarjeta

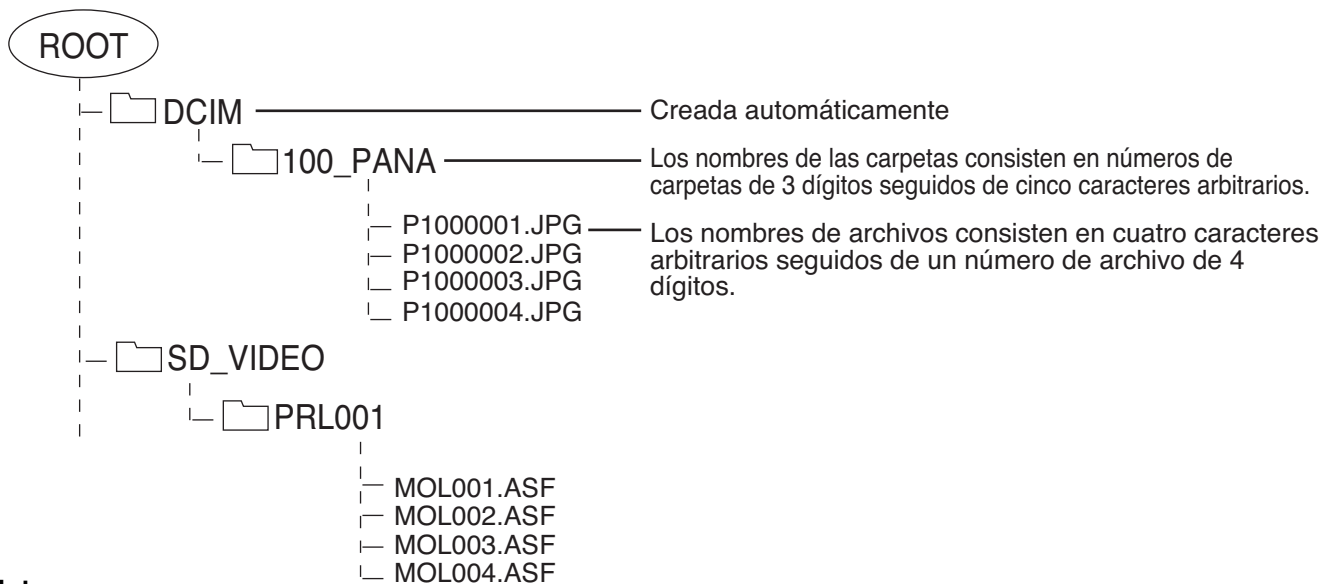
- No extraiga la tarjeta mientras la unidad esté accediendo a la información. Esto podrá dañar la tarjeta de memoria o la propia unidad.
- El LED azul se enciende durante la grabación.
- Antes de introducir o extraer la tarjeta PC, asegúrese de que el televisor esté apagado. De lo contrario podría dañarse la unidad.
- No toque los terminales de la parte posterior de la tarjeta SD/tarjeta PC.
- 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

- El Menu de imagenes solamente puede mostrar imágenes fijas grabadas con una cámara digital con los estándares DCF* y EXIF de archivo JPEG.
*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).
- El Menu de película solamente puede mostrar imágenes animadas grabadas con esta unidad o con una cámara digital con el estándar MPEG4 de archivo ASF.
- 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 archivos que puede mostrarse: **65.535**
- **Resolución de imagen:** Compatible dentro de la gama 8 x 8 - 5.120 x 3.840
- 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.
- Esta función no puede visualizar imágenes Motion JPEG ni imágenes fijas que no sean del formato DCF (por ejemplo, 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.
- El número de píxeles para película es 320 x 240 (QVGA) o 176 x 144 (QCIF).
- Cuando el número de archivos exceda 65.535, no será posible grabar más vídeo.
- El formato de audio utilizado es G.726 (frecuencia de muestreo 32 Kbps, 8 kHz, monofónico).

Ejemplo de estructura de carpeta

Cuando se visualice la jerarquía de los archivos de la tarjeta en el PC como se muestra abajo.




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.

Operaciones de la tarjeta


Menu SD




- 1 Inserte la tarjeta en la ranura de tarjeta (vea la página 40).
- 2  Presione para visualizar el Menu SD.


Menu SD
Grabar en SD
Menu de película
Menu de imagenes
Aj. de grabado
Formatear
Memoria Restante

Para volver al Menu SD.

 Presione para volver al Menu SD.

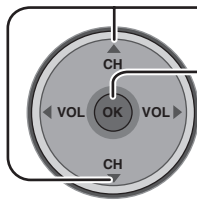
Para salir de la operación de la tarjeta

EXIT  Presione para volver a la imagen normal.

 Durante la visualización del Menu SD, presione para volver a la imagen normal.

Grabar en SD

Se iniciará la grabación del canal actual. Configure Aj. de grabado antes de grabar (vea la página 45).




Presione para seleccionar Grabar en SD.
Presione para iniciar la grabación. Si el tiempo restante no es suficiente o Tiempo Grab. de Aj. de grabado está ajustado a Nulo, aparecerá el mensaje.

El tiempo restante no es suficiente

Memoria insuficiente	
Ajustes Actuales	
Programados	30min
Modo grabado Economía	
Disponibles	19min
Empezar Grabacion?	
No	Si

Tiempo Grab. está ajustado a Nulo




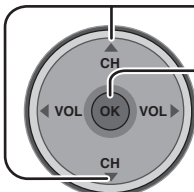
19 Mins. Disponibles Economía	
Empezar Grabacion?	
No	Si

Si : Iniciar la grabación
No : Cancelar

Notas:

- Se puede hacer el ajuste de Imagen o Audio pulsando el botón MENU durante la Grabar en SD.
- La grabación de vídeo se puede hacer en los canales analógicos solamente. Sin embargo, no se puede hacer en canales restringidos.
- Para comprobar la información de la grabación de vídeo, presione botón RECALL.
- Si se activa el temporizador SLEEP durante la grabación de video, la grabación se parará y la alimentación se desconectará independientemente del ajuste de Tiempo Grab..
- Cuando se exceda el ajuste de clasificación de un programa durante la grabación de vídeo, se parará la grabación. La grabación de vídeo se reanudará cuando se libere la clasificación. (Cuando se reanude de la grabación se creará un archivo nuevo.) La grabación de vídeo no se reanudará si el canal ha sido cambiado.
- El vídeo SD podrá no ser totalmente compatible o reproducible en algunos software de PC o dispositivos PDA.

Para parar la grabación

- 1  Presione para visualizar el Menu SD.
- 2  Presione para seleccionar Det. Grabacion.
Presione para parar la grabación.

Menu SD
Det. Grabacion
Menu de película
Menu de imagenes
Aj. de grabado
Formatear
Memoria Restante

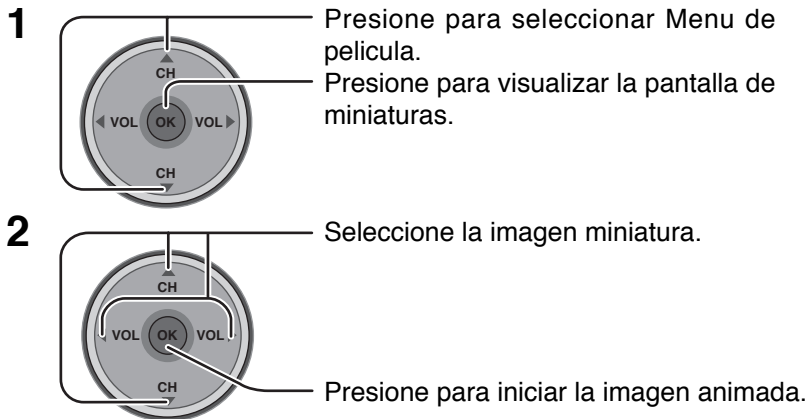
Notas:

- Si se cambia de canal durante la grabación, el canal de grabación no cambiará.
- Cuando se muestren dos canales en la misma pantalla como fotografías divididos, la imagen principal será la que se grabe. Se puede cambiar el canal a la imagen secundaria.
- El botón POWER, el botón SAP y los botones de sintonización para la imagen principal no funcionarán mientras se esté grabando vídeo.

Menu de película

Se reproducirán las imágenes animadas grabadas con esta unidad o con una cámara digital.

Esta función solamente es compatible con tarjetas SD.



Archivo seleccionado
Visualización de error (imágenes que no se pudieron cargar, etc.)



Tarjeta insertada visualizada (esto no aparece para tarjetas PC)

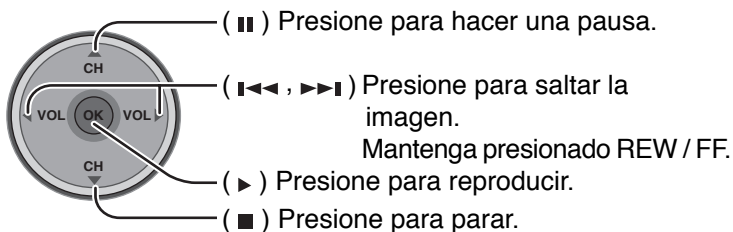
Película sin sonido
Película para la que ha sido establecido el bloqueo

Notas:

- Se puede hacer el ajuste de Imagen, Audio o Ajuste pulsando el botón MENU durante Menu de película.
- “Fecha” muestra la fecha en la que fue hecha la grabación de video con la cámara digital. Su formato es 2000/01/01 cuando las grabaciones de vídeo se hacen con esta unidad.

Durante la reproducción

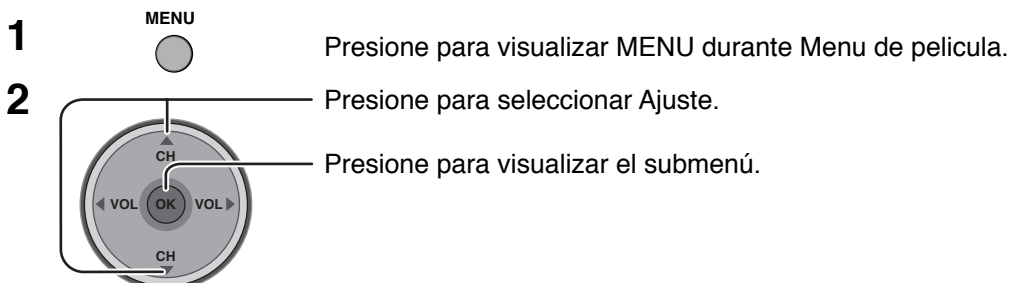
Si la guía de operación no está visualizada, presione el botón RECALL para visualizarla.



Notas:

- Cuando no esté visualizada la guía de operación, se podrá ajustar el volumen utilizando los botones VOL.
- La guía de operación se puede visualizar o quitar pulsando el botón RECALL.
- Durante la reproducción de película, no saldrán señales por los terminales de salida del monitor ni de salida de audio digital.
- Durante la reproducción de película, la relación de aspecto no podrá cambiarse.

Ajuste



■ Despliegue (Grande o Normal)

Seleccione el tamaño de Despliegue.

■ Repetir (No, Solo Uno o Todos)

Seleccione el modo de repetición.

MENU
Imagen
Audio
Ajuste

Ajuste	
Despliegue	Normal
Repetir	No

Bloquear / desbloquear el archivo

Seleccione la imagen miniatura que quiera bloquear.



Presione para bloquear el archivo.
Presione otra vez para desbloquear.

Borrar el archivo

Seleccione la imagen miniatura que quiera borrar.



Presione para borrar el archivo.

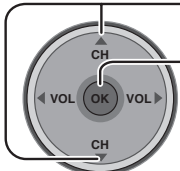
Nota:

Si el archivo está bloqueado, no será posible borrarlo.

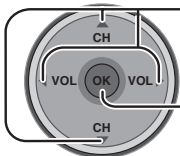
Operaciones de la tarjeta

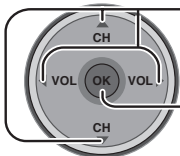
Menu de imagenes

Se visualizarán las imágenes fijas grabadas con la cámara digital.
Esta función es compatible con tarjetas SD y tarjetas PC.

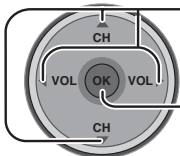
- 

Presione para seleccionar Menu de imagenes.



Presione para visualizar la pantalla de miniaturas.
- 

Seleccione la imagen miniatura.



Presione para visualizar la imagen.



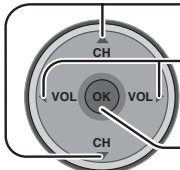
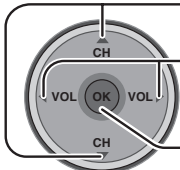
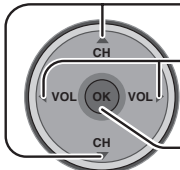
Tarjeta insertada visualizada (esto no aparece para una tarjeta que no esté seleccionada)

Notas:


- Se puede hacer el ajuste de Imagen o Ajuste pulsando el botón MENU durante Menu de imagenes.
- El aspecto de la imagen se puede cambiar pulsando el botón ASPECT durante el modo sencillo y el modo Visualization.

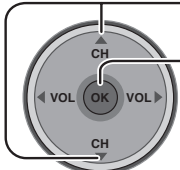
Girar / Saltar

Le permite girar la imagen durante el modo sencillo.
Si la guía de operación no está visualizada, presione el botón RECALL para visualizarla.

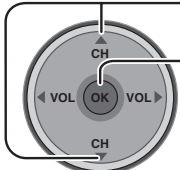
- 
- Presione para saltar a la imagen siguiente o anterior.
- 
- Presione para girar la imagen noventa grados.
- 
- Presione para visualizar la pantalla de miniaturas.

Ajuste

- 

Presione para visualizar MENU durante Menu de imagenes.
- 

Presione para seleccionar Ajuste.

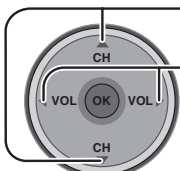


Presione para visualizar el submenú.

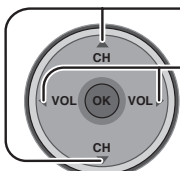
Ajuste	
Visualization	
Intervalo	5s
Repetir	No
Aj. de tarjeta	SD

■ Visualization

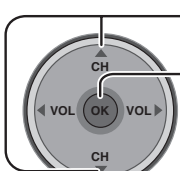
Seleccione la configuración de Intervalo y Repetir antes de iniciar Visualization.

- 

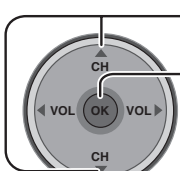
Presione para seleccionar Intervalo o Repetir.



Presione para seleccionar la configuración.

 - Intervalo : Le permite cambiar el tiempo que está siendo visualizada una imagen en la pantalla. (5s, 10s, 15s, 30s, 60s, 90s, 120s)
 - Repetir : Si u No
- 

Presione para seleccionar Visualization.

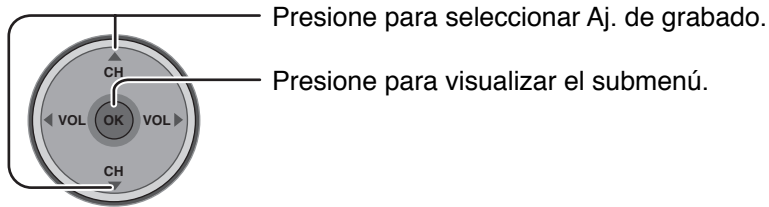


Presione para iniciar Visualization.
Presione otra vez para parar.

■ Aj. de tarjeta

Seleccione SD o PC cuando ambas tarjetas estén insertadas en las ranuras. (No se selecciona cuando hay insertada una tarjeta.)

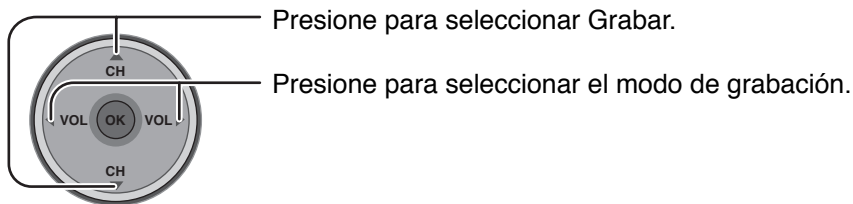
Aj. de grabado



Aj. de grabado	
Grabar	Economía
Tiempo Grab.	Nulo

■ Grabar (Extrafino, Superfino, Fino, Normal, Economía)

Se puede cambiar la calidad de imagen.

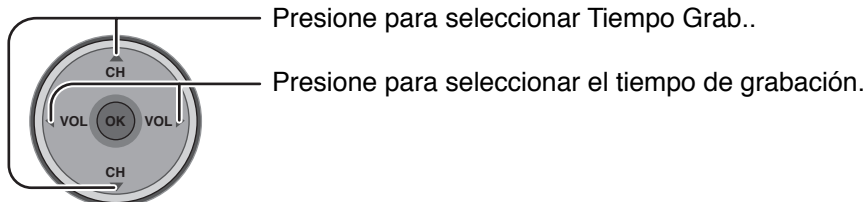


Nota:

Las tarjetas Multi Media no son compatibles con el modo de grabación Extrafino o Superfino. Si la grabación de vídeo es comenzada en este estado, la grabación se realizará automáticamente en el modo de grabación Fino.

■ Tiempo Grab. (Nulo, 5 m, 10 m, 15 m, 30 m, 60 m, 90 m, 120 m, 180 m)

Establezca el tiempo de grabación antes de hacer la grabación.



Nota:

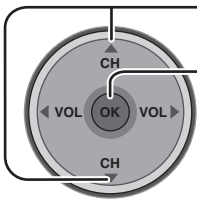
Si ajusta Tiempo Grab. a Nulo, la grabación no se parará automáticamente hasta la tarjeta esté completamente grabada.

Operaciones de la tarjeta

Formatear

Puede formatear la tarjeta.

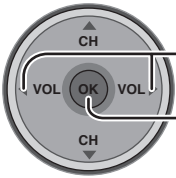
1



Presione para seleccionar Formatear.
Presione una vez.
Aparecerá el mensaje para confirmar.

Todo el contenido sera borrado.
Continuar?
No Si

2



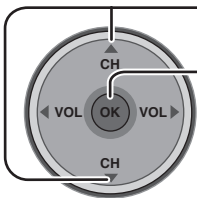
Presione para seleccionar Si.
Presione para iniciar el formateo.

Notas:

- Si formatea la tarjeta, se borrarán todos los datos en ella.
- Solamente podrán ser formateadas las tarjetas que sean compatibles con la ranura de tarjeta SD.

Memoria Restante

Puede confirmar el tiempo restante para la grabación en cada Grabar.



Presione para seleccionar Memoria Restante.
Presione para visualizar la memoria remanente.

Memoria Restante	13 Mb
Min. Disponibles	
Economia	17Min
Normal	5Min
Fino	4Min
Superfino	1Min
Extrafino	1Min
Presione MENU para regresar	

Nota:

Las tarjetas Multi Media no son compatibles con el modo de grabación Extrafino o Superfino, aparece " --- ".


Mensajes de error

“Tarj. SD presente?”	Introduzca una tarjeta.
“SD protegida. Revisar Tarjeta”	Desbloquee la tarjeta SD.
“Fichero prot. Desproteger para borrar”	Desbloquee el archivo en la tarjeta.
“Tarjeta invalida / Fichero invalido”	La tarjeta deberá ser formateada con FAT 12 o FAT 16. Las imágenes fijas deberán estar con los estándares DCF y EXIF de archivo JPEG. La imagen animada deberá estar con el estándar MPEG4 de archivo ASF. Se ha introducido una tarjeta incompatible.
“Fichero corrupto. Imagen no disponible.”	El archivo está estropeado.
“Memoria llena”	La tarjeta de memoria está llena.
“Memoria Insuficiente”	La tarjeta no tiene suficiente memoria para funcionar.
“No lect. de fichero”	El archivo no es legible.
“Señal no Grabable”	La grabación de vídeo se puede hacer en los canales analógicos solamente. Sin embargo, no se puede hacer en canales restringidos.
“Error. Revisar tarjeta”	Reinserte la tarjeta. Si el error persiste, formatee la tarjeta.
“Grabando SD. Parar grab. para utilizar”	El botón POWER, el botón SAP y los botones de sintonización para la imagen principal no funcionarán mientras se esté grabando vídeo.

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 .



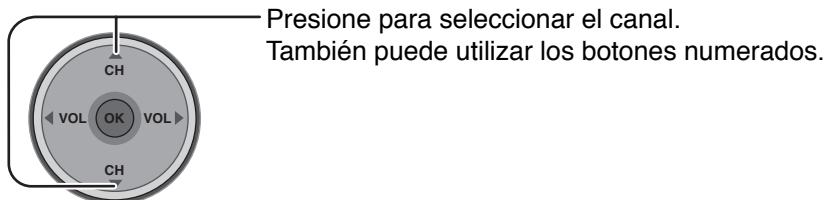
Notas:

- 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



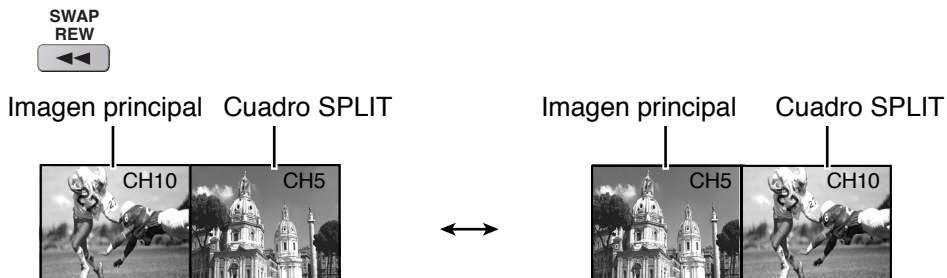
En la imagen principal



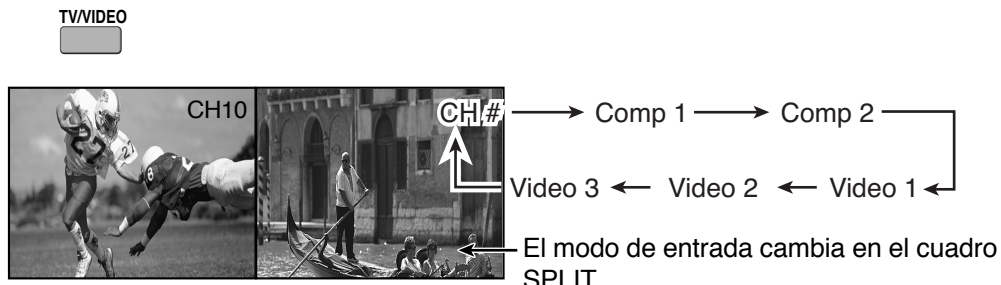
Para cancelar la operación SPLIT



Para cambiar las imágenes



Para seleccionar el modo de entrada del cuadro SPLIT



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.
- La función de SWAP no está disponible cuando se tiene sintonizado un canal ATSC.

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, COMP, JUSTO y Acerc
- 480p (4:3) : 4:3, COMP y Acerc
- 480p (16:9) : 4:3, COMP y Acerc
- 1080i : 16:9 Sólo

Modo	Imagen	Explicación
4 : 3		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.)
Acerc		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.)
COMP		Muestra una imagen ocupando toda la pantalla. (Recomendado para imágenes anamórficas.)
JUSTO		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.)

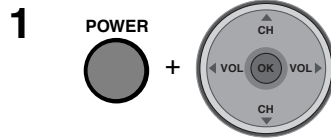
Funcionamiento de equipos periféricos utilizando el control remoto

Programación del código de control remoto

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

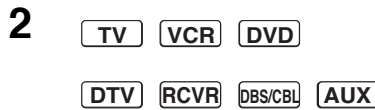
Preparación:

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



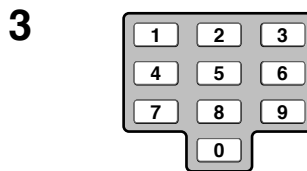
Mantenga presionado **POWER** y **OK** juntos durante un mínimo de 5 segundos.

- 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 51-53).

- 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

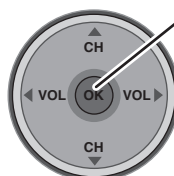
1 Después de seleccionar el tipo de componente (paso 2 anterior)



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.

Funcionamiento de equipos periféricos utilizando el control remoto

Índice de claves infrarrojas

El control remoto es capaz de controlar muchas marcas de equipos periféricos. Consulte la página 50 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 9). Consulte las páginas 54 y 55 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 las 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



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

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

DBS/CBL

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
Toshiba	100
Uniden	101, 102
Zenith	127

DBS/CBL

Claves para decodificadores de televisión por cable


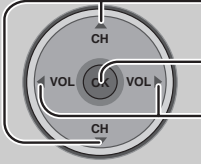



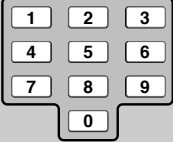




Marca	Código
ABC	224
Archer	225, 232
Cableview	205, 232
Citizen	205, 222
Curtis	212, 213
Diamond	224, 225, 232
Eagle	229
Eastern	234
GC Brand	205, 232
Gemini	222
General Instrument/Jerrold	211, 219, 220, 221, 222, 223, 224, 225, 226, 227
Hamlin	212, 218, 240, 241, 242, 245
Hitachi	203, 224
Macom	203, 204, 205
Magnavox	233
Memorex	230
Movietime	205, 232
Oak	202, 237, 239
Panasonic	209, 210, 214
Philips	206, 207, 228, 229, 230
Pioneer	201, 216
Pulsar	205, 232

Marca	Código
Puser	232
RCA	215
Realistic	232
Regal	212, 218, 240, 241, 242, 245
Regency	234
Rembrandt	205, 232, 237
Samsung	205
Scientific Atlanta	211, 212, 213
Slmark	201, 205
Sprucer	205, 210
Stargate	205, 232
Televue	201, 205
Texscan	244
Tocom	235
Toshiba	204
Unika	225, 232
Universal	222, 232
Videoway	206
Viewstar	229, 230
Zenith	200, 217
Zenith /Drake Satellite	200

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
POWER 	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 	MENU DTV	—	—
	INFORMACIÓN DE PROGRAMA	—	INFORMACIÓN DE PROGRAMA DBS
EXIT 	SALIDA DE GUÍA ELECTRÓNICA DE PROGRAMA (EPG)	—	SALIDA DE MENU DBS
	Selección de canales	Selección de canales	Selección de canales
R-TUNE 	CANAL STB ANTERIOR	CANAL DE CABLE ANTERIOR	CANAL DBS ANTERIOR
PROG 	PROGRAMA DTV/RAYA	—	—
REC 	INFORMACIÓN DE GUÍA ELECTRÓNICA DE PROGRAMA (EPG)	—	—
SPLIT CH DVD/VCR CH 	—	—	CANAL DE DBS SUPERIOR/INFERIOR

Funcionamiento de equipos periféricos utilizando el control remoto





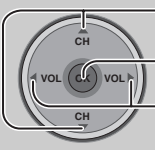



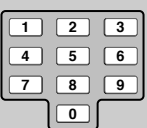










NOMBRE DE TECLA	MODO VCR	MODO DVD/CD		MODO AUX			MODO RCVR
		(DVD)	(CD)	(PVR)	(VCR2)	(TAPE)	
	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN	ALIMENTACIÓN
	SILENCIAMIENTO DE TV	SILENCIAMIENTO DE TV	SILENCIAMIENTO DE RCVR	SILENCIAMIENTO DE TV	SILENCIAMIENTO DE RCVR	SILENCIAMIENTO DE RCVR	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 +/-
	—	—	—	—	—	—	—
	VOLUMEN +/-	NAVEGACIÓN DERECHA/IZQUIERDA	VOLUMEN DE RCVR +/-	NAVEGACIÓN DERECHA/IZQUIERDA	VOLUMEN +/-	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 RÁPIDO EN PVR	—	—	—

Tabla de solución de problemas

Si tiene algún problema con su televisor, consulte la siguiente tabla para determinar en primer lugar los síntomas para después llevar a cabo la comprobación. Si no puede resolver de estamnera el problema, le rogamos que contacte con su distribuidor Panasonic más cercano y le informe del número del modelo y el número de serie (se encuentran en la parte trasera del televisor).

Síntomas		Comprobaciones
Imagen	Sonido	
 Imagen con Nieve	 Sonido Anormal	Situación, dirección o conexión de la antena
 Imágenes Múltiples	 Sonido Normal	Situación, dirección o conexión de la antena
 Interferencia	 Sonido Anormal	Aparatos eléctricos Coches / Motocicletas Tubos fluorescentes
 Imagen Norma	 No Hay Sonido	Nivel del volumen a cero Está activado el silenciador del sonido.
 No Hay Imagen	 No Hay Sonido	El televisor está en el modo de AV. El televisor no está enchufado a la toma de corriente eléctrica. El televisor no está encendido. Los controles de Imagen / Sonido están puestos en los niveles mínimos. Comprobar si se está en el modo de En Espera. Asegúrese de que no hay conectado un PC a la entrada HDMI. El televisor quizás no visualiza video en HDMI procedente de dispositivos con salida HDMI o DVI debido a una mala comunicación entre el televisor y los dispositivos. Si ocurriera, desenchufe el dispositivo HDMI/DVI y vuélvalo a enchufar.
 No Hay Color	 Sonido Normal	Los controles de los colores están puestos en los niveles mínimos. Señal débil.
 Imagen Deficiente o Distorsionada	 Sonido Débil o Ausente	Vuelva a sintonizar el canal o canales.
 Imagen Normal	 Sonido Débil o Distorsionado	La recepción del sonido puede haberse deteriorado. Conmutar el ajuste de ESTEREO (menú del Sonido) a Mono hasta que mejore la recepción. Cambie el audio del dispositivo HDMI a Linear PCM. Compruebe el ajuste de audio para HDMI. Si hay un problema funcional con el audio digital, utilice el audio analógico.
No se puede realizar la operación con el control remote.		Las pilas están débiles o agotadas. La polaridad de las pilas es incorrecta. El sensor de las señales del control remote esta expuesto a una luz fuerte de una lámpara fluorescente, etc.
La unidad principal está caliente.		La unidad principal irradia calor y algunas de las partes pueden calentarse. Esto es normal y no deberá afectar al rendimiento o la fiabilidad. Instale en un lugar donde haya buena ventilación. No tape los orificios de ventilación del televisor con un paño de cocina, etc., y no lo ponga encima de otro equipo.
Podrá haber puntos rojos, puntos azules, puntos verdes y puntos negros en la pantalla.		Esta es una característica de los paneles de cristal líquido y no suponen un problema. El panel de cristal líquido está fabricado con tecnología de gran precisión ofreciéndole excelentes detalles de imagen. Ocasionalmente, podrán aparecer unos pocos píxeles no activos en la pantalla como puntos fijos de color rojo, azul, verde o negro. Le rogamos que tenga en cuenta que esto no afecta al rendimiento de su LCD.
HDMI	Mala calidad de vídeo. (Ruido nieve, no hay imagen, la imagen corre, etc.)	El cable HDMI no está conectado firmemente. Desconecte la alimentación del televisor y del equipo conectado y después vuelva a conectarla. Compruebe la compatibilidad de la señal de entrada procedente del equipo conectado. El equipo conectado deberá ser compatible con EIA/CEA-861/861B.
	Mala calidad de audio.	Cambie el ajuste de audio del equipo conectado a L.PCM. Compruebe el ajuste de HDMI INPUT. Si el problema se debe a la conexión de audio digital, cambie a la conexión de audio analógico.
No se puede utilizar la tarjeta SD incluso después de formatearla.		Consulte con un tienda local de Panasonic.

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 Infanteria, Km 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985