



For assistance, please call : 1-800-211-PANA (7262)
or visit us at www.panasonic.com/contactinfo

(U.S.A.)

English

Español [Resumen]

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.

■ Secure ventilation

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

■ Important Safety Instructions 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.



Important Safety Instructions

18) If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Section 810-21 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

19) An outside antenna system should not be located in the vicinity of overhead power lines 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.

e. If the LCD TV has been dropped or the cabinet has been damaged.

f. When the LCD TV exhibits a distinct change in performance - this indicates a need for service.

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

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

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

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

KEEP SMALL PARTS AWAY FROM YOUNG CHILDREN.

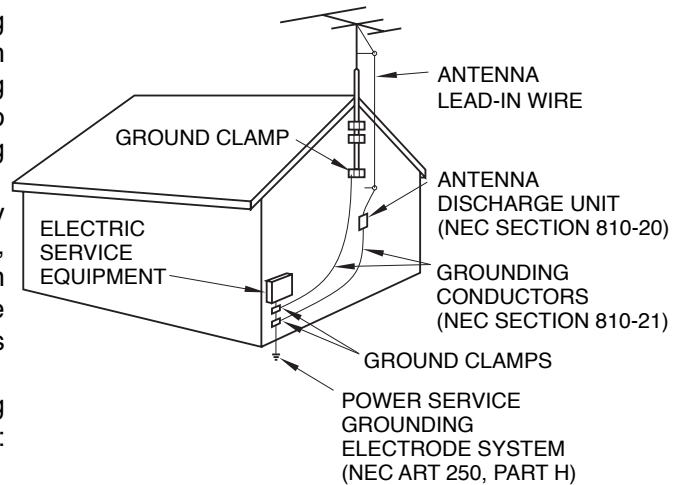
DISCARD UNNEEDED SMALL PARTS AND OTHER OBJECTS, INCLUDING PACKAGING MATERIALS AND PLASTIC BAGS/SHEETS TO PREVENT THEM FROM BEING PLAYED WITH BY YOUNG CHILDREN, CREATING THE POTENTIAL RISK OF SUFFOCATION.

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

25) **CAUTION :** USE WITH OTHER STAND MAY RESULT IN INSTABILITY POSSIBLY CAUSING INJURY.

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

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



NOTE: • 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.

■ 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.

Dear Panasonic Customer

Welcome to the Panasonic family of customers.

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

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

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

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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: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



The ENERGY STAR® label, a symbol for energy efficiency, was created by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE) to help customers identify products that can save them money and protect the environment by saving energy. The ENERGY STAR® compliant products generally consume less energy than similar standard products.

Table of Contents

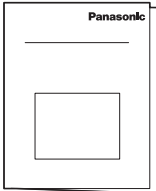
Important Safety Instructions	2	AUDIO ADJUST	21
SUPPLIED ACCESSORIES	5	ASPECT Controls	22
Remote control battery installation	5		
Installation	6		
How to remove the TV-Stand	6		
How to hang the LCD Television on the wall	6		
Connections	7		
Antenna Connection	7		
Cable Box Connection	7		
Connecting Other Equipment	8		
Connecting Headphones / Earphones	9		
Power ON / OFF	9		
Menu Operations	10		
Basic Controls	12		
Tuning Channels	13		
LOCK	14		
CLOSED CAPTION	18	Troubleshooting	30
INPUT LABEL	19	CUSTOMER SERVICES DIRECTORY	31
OTHER ADJUST	19	Maintenance	31
PICTURE ADJUST	20	Specifications	back cover


Manuel de instrucciones [Resumen]	
Instalación	23
Instalación de las pilas del mando a distancia	23
Conexión	24
Conexión de antena	24
Conexión del receptor de TV por cable	24
Conexión de auriculares	25
Conexión/desconexión de la alimentación	25
Operaciones con menús	26
Controles básicos	28
Sintonización de canales	29


SUPPLIED ACCESSORIES

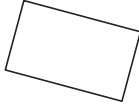
Check the accessories before installation.

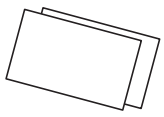
- Operating Instructions


- Remote Control Transmitter (EUR7726020R)


- Batteries for the Remote Control Transmitter (2 x AA size)


- Warranty Card

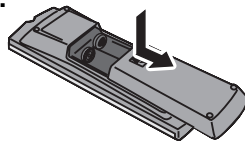

- Product Registration Card and Customer Care Plan Card



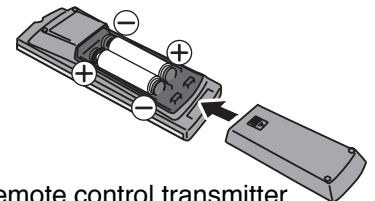
Remote control battery installation

Requires two AA batteries.

1. Open the battery cover.



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



⚠ Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. Disposal of batteries should be in an environmentally manner.

Observe the following precautions:

1. Always use new batteries when replacing the old set.
2. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
3. Battery replacement is necessary when remote control acts sporadically or fails to operate this unit.

Notes:

- Do not drop, apply shock to or step on the remote control.
- Do not spill water on the remote control.
- Do not place objects between the remote control and remote control receiver.
- Do not use remote controls for other equipment at the same time.
- If the TV does not operate even when using the remote control from a close range, it is time to replace the batteries. Refer to the label on back of the remote control for directions on replacing batteries.

Installation

Receiver Location

Locate for comfortable viewing. Avoid placing where sunlight or other bright light (including reflections) will fall on the screen.

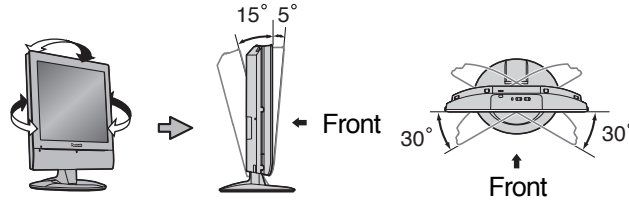
Use of some types of fluorescent lighting can reduce remote control transmitter range.

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

How to use the LCD stand

Adjust the stand to your desired angle.

The stand angle can be adjusted between 5° forward and 15° back, and rotated 30° to the right/left.



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 ohm coaxial shielded wire. Cables are available from your dealer or electronic supply store.

Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

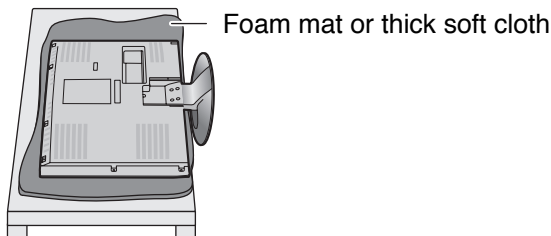
For optimum quality picture

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.

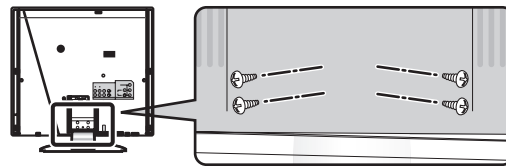
How to remove the TV-Stand

Follow the procedure below when the TV-Stand needs to be removed for wall-hanging.

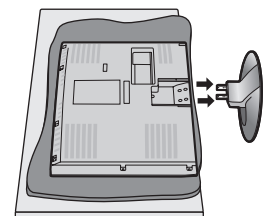
- 1 Place the TV face down on a foam mat or a thick soft cloth to prevent damage to the panel.



- 2 Remove screws. (at 4 points)



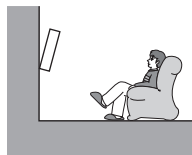
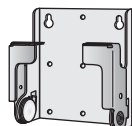
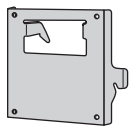
- 3 Carefully pull out the TV-Stand.



How to hang the LCD Television on the wall

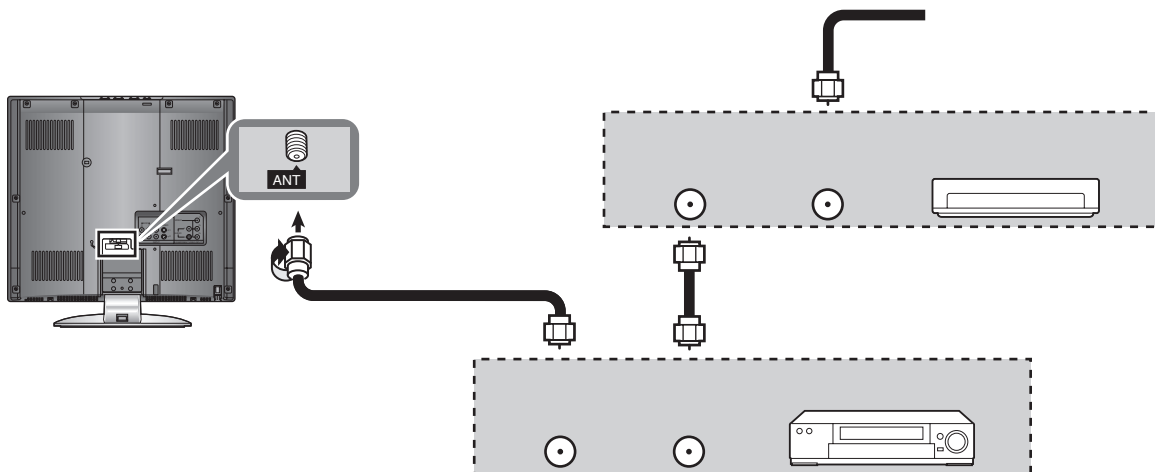
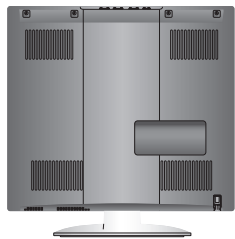
This LCD Television is for use only with the following optional accessory. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

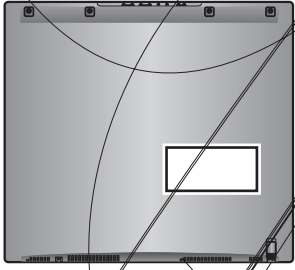
- Wall-hanging bracket TY-WK22LR1W



WARNING:

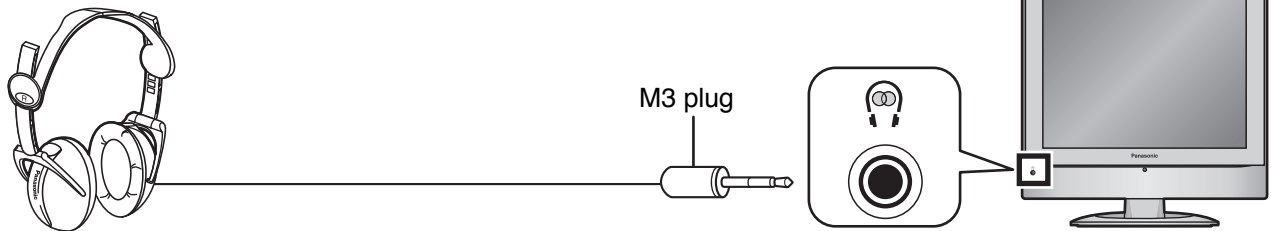
- Failure to use Panasonic bracket or choosing to mount unit yourself will be done at the risk of the consumer. Any damage resulting from not having a professional installer mount your unit will void your warranty.
- Always be sure to ask a qualified technician to carry out set-up. Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- For more details, please refer to the wall-hanging bracket installation manual.
- Please contact your nearest Panasonic dealer for purchasing the wall-hanging bracket.





Connecting Headphones / Earphones

(Not supplied)

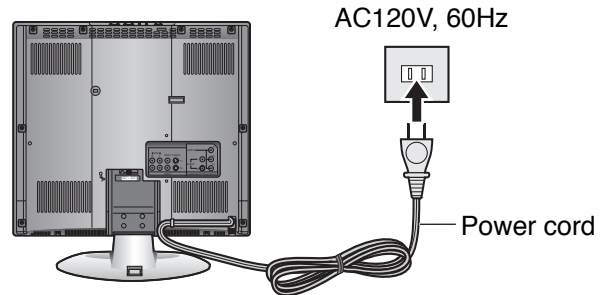


Power ON / OFF

Connecting the Plug to the Wall Outlet

Note:

The TV consumes some power as long as the power cord is inserted into the wall outlet.



On the main unit

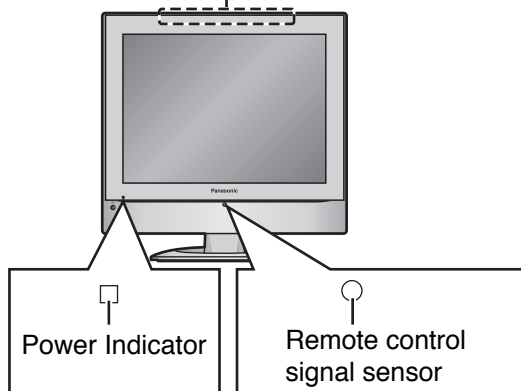
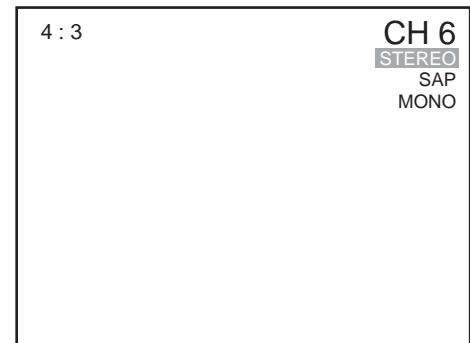


Press to turn the TV's main power on/off.

- Power indicator
Main power ON : Green
Main power OFF : No light

The screen below is displayed for a while when the TV is turned on.

e.g.



On the remote control

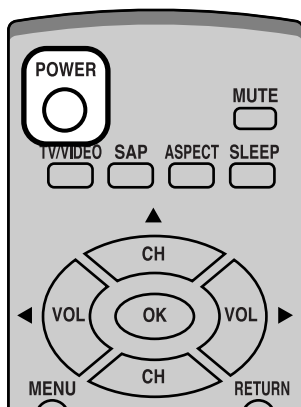


Press to turn the TV on/off.

- Power indicator
Power ON : Green
Power OFF (Standby) : Red
- This does not work when the main power is off (No light) (see above).

Note:

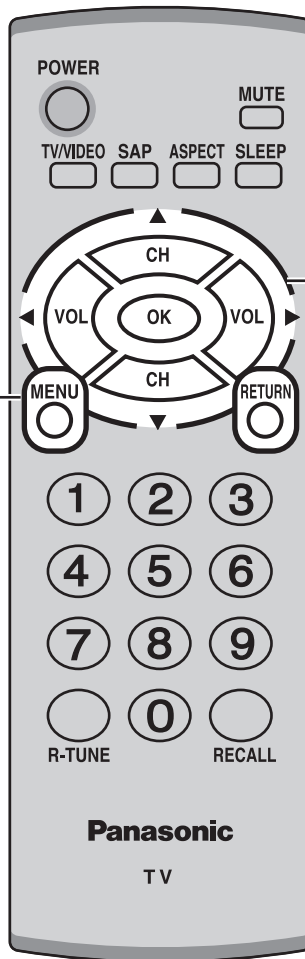
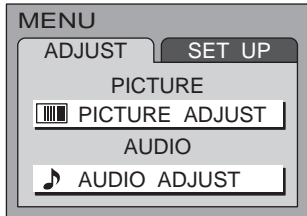
Select the menu language before operating the TV (see page 11, LANGUAGE).



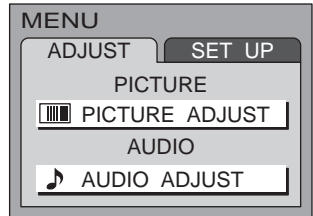
Menu Operations

1

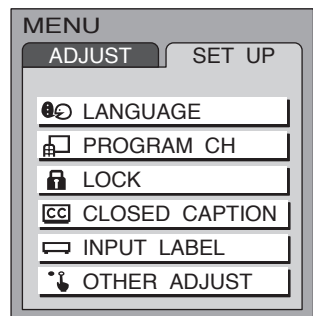
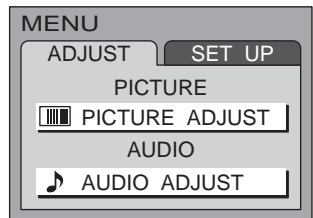
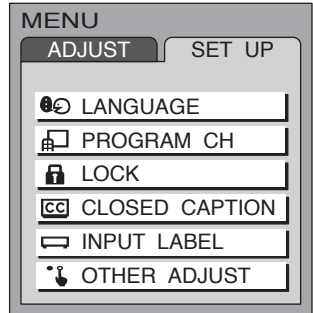
Press to display MENU screen.



2

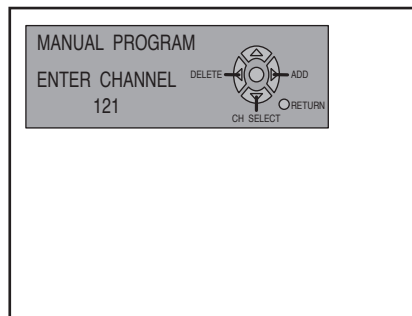


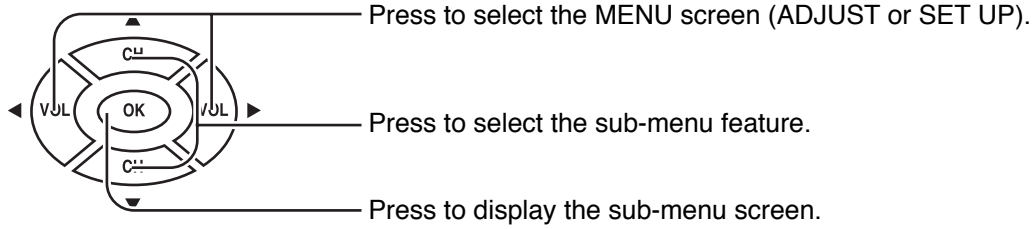
or



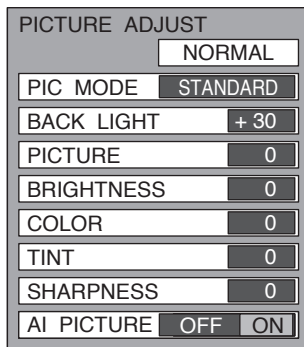
ON SCREEN HELP 'Instruction' box

An On Screen Help box is displayed when a menu is displayed on the TV. This Help box indicates which keys on the remote control are used to navigate the menu shown.

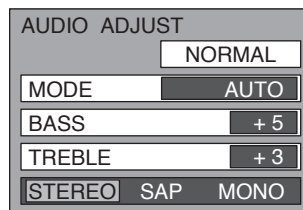




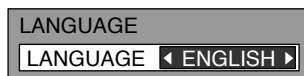
- To return to the previous screen : RETURN
- To exit the MENU screen: MENU This returns to the normal viewing.



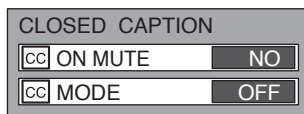
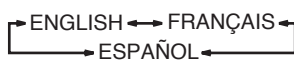
(See page 20)



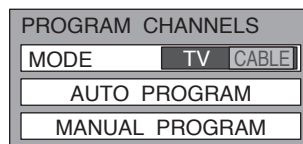
(See page 21)



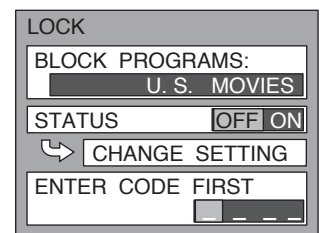
Select the menu language.



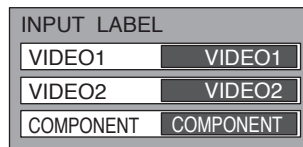
(See page 18)



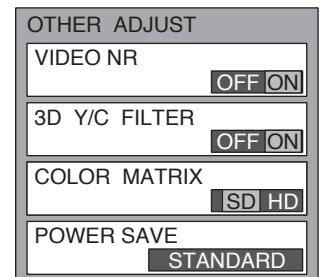
(See page 13)



(See page 14 - 17)



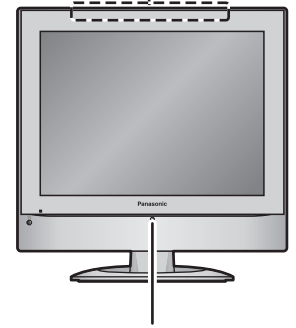
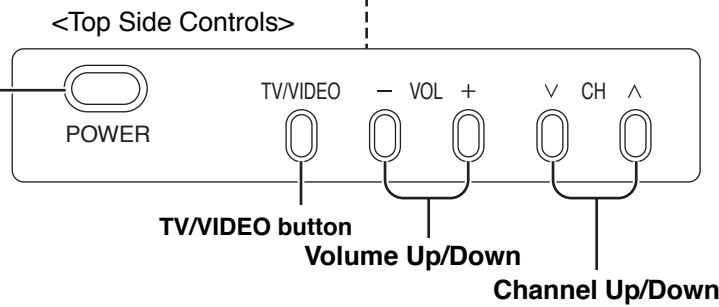
(See page 19)



(See page 19)

Basic Controls

Main POWER switch
Press to turn the TV's main power on/off. (see page 9)



Remote control sensor
Within about 23 feet (7 meters) in front of the TV set.

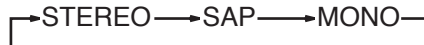
POWER button
Press to turn the TV on or off. (see page 9)
Note:
This does not work when the main power is off (No light).

MUTE button
Press to mute the sound.
Press again to cancel mute.
Mute is canceled when the power is turned off or volume level is changed.

TV/VIDEO button
Press to change the input mode.



SAP button
Press to select the audio mode. You can also change the mode in the MENU screen (see page 21).



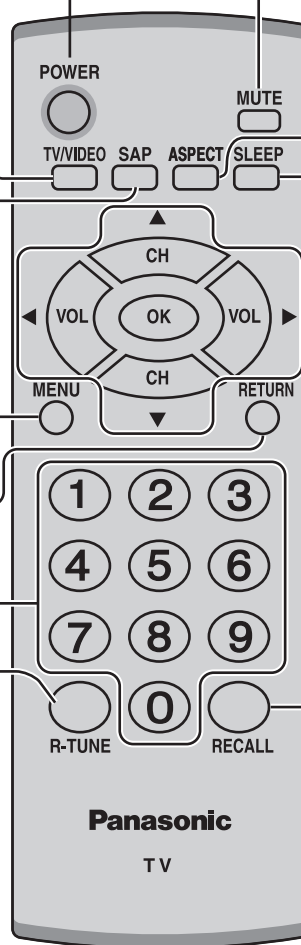
MENU button
(see page 10)

RETURN button
Press to return to the previous screen.

Numbered buttons

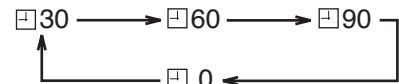
R-TUNE button
Press to switch to previously viewed channel or video mode.
Not effective under the following conditions:

1. Right after the TV is turned on.
2. After switching TV / CATV (MODE in PROGRAM CHANNELS).
3. Right after the ACP (Automatic channel programming) execution.
4. When the same channel as the present channel is selected.



ASPECT button
(see page 22)

SLEEP button
Set the sleep time to turn the TV into standby mode.

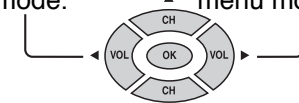


- When 3 minutes left, " 3 " will flash. ("2" for 2 minutes and "1" for 1 minute).
- The SLEEP timer is cancelled when the power is turned off.

Channel up
Moves cursor upward during menu mode.

Reduces volume
Moves cursor to the left during menu mode.

Increases volume
Moves cursor to the right during menu mode.



Channel down
Moves cursor downward during menu mode.

RECALL button
Press to display channel number, sleep timer and other options.

Tuning Channels

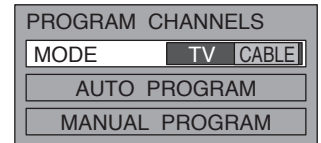
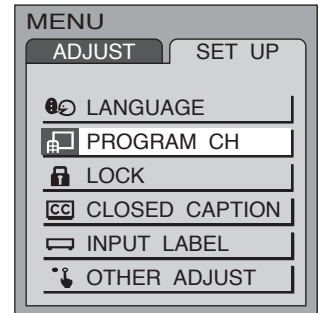
1 Press the TV/VIDEO button to display the TV channel.

2 Press to select PROGRAM CH.

Press to display the PROGRAM CHANNELS screen.

3 Press to select MODE.

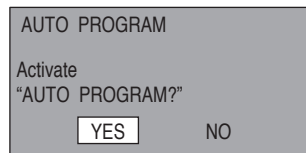
Press to select TV or CABLE.



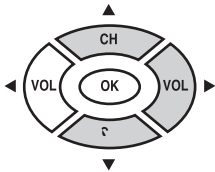
Automatic channel programming

Automatically scans and stores all the TV channels.

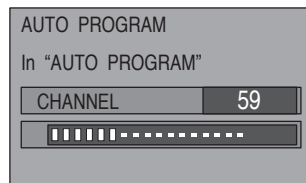
4 Press to select AUTO PROGRAM.
Press to display the AUTO PROGRAM screen.



5 Press to select YES.



Press to start AUTO PROGRAM.



Notes:



- When any button is pressed during AUTO PROGRAM, the TV will return to the normal viewing. (Channels searched up to that point are added.)
- After AUTO PROGRAM finishes, the lowest channel number added will be displayed.
- When there is no receivable channel, channel 69 (for TV) or channel 125 (for cable TV) is displayed.

V-Chip technology allows parents to use the TV rating codes to block programs that they feel are inappropriate for their children to watch.

Press to select LOCK.

Press to display the LOCK screen.

Input 4-digit code.

- To clear the numbers while entering the code, press Up  or Down .
- You will need the code to enter the LOCK menu.
- After entering your password for the first time, ENTER CODE FIRST will change to CHANGE CODE.

Note:

Use a code that is easy to remember and record it in a safe place.

3

Press to select BLOCK PROGRAMS.

Press to select U.S. MOVIES, U.S. TV PROGRAMS, CANADIAN ENGLISH or CANADIAN FRENCH.

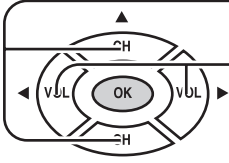
4

Press to select STATUS.

U.S. MOVIES

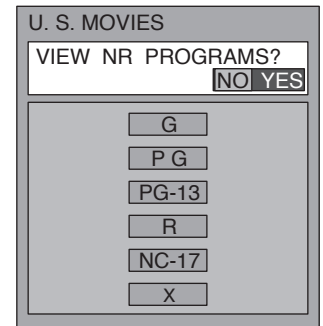
This TV features the “V-Chip technology” which allows you to use Motion Picture Ratings when viewing movies or video tapes. This innovation allows parents to block various types of movies and video tapes at their discretion.

6

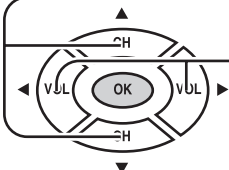


Press to select VIEW NR PROGRAMS?.

Press to select NO or YES.
 NO : Cannot view programs with NR signals.
 YES : Can view programs with NR signals.



7



Press to select the rating.

Press to lock or unlock the rating.
 Lock : Red
 Unlock : Green

Notes:

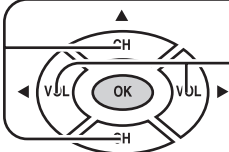
- When a rating is locked, all ratings below this rating are locked.
- When a rating is unlocked, all ratings above this rating are unlocked.

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.
P G	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.

U.S. TV PROGRAMS

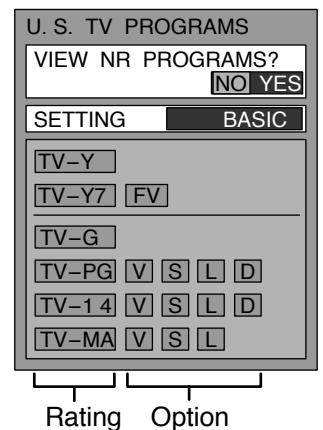
This TV features the “V-Chip technology” which allows you to use U.S. TV PROGRAMS Guide ratings to block various types of TV programs.

6

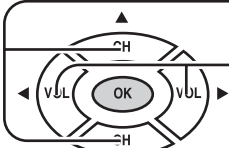


Press to select VIEW NR PROGRAMS?.

Press to select NO or YES.
 NO : Cannot view programs with NR signals.
 YES : Can view programs with NR signal.



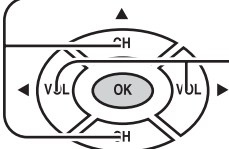
7



Press to select SETTING.

Press to select BASIC or DETAILED.
 BASIC : You can select the ratings.
 DETAILED : You can select the ratings and options.

8



Press to select the rating.

Press to lock or unlock the rating.
 Lock : Red
 Unlock : Green

Notes:

- When a rating is locked, all ratings (including options) below this rating are locked.
- When a rating is unlocked, all ratings (including options) above this rating are unlocked.
- When an option (V, S, L or D) is locked, all the same options (V, S, L or D) below this rating are locked.
- When an option (V, S, L or D) is unlocked, all the ratings and the same options (V, S, L or D) above this rating are unlocked.

6

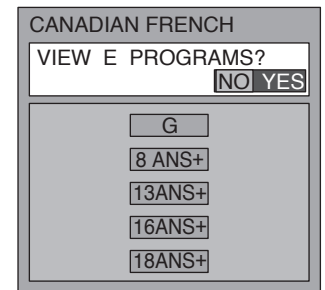
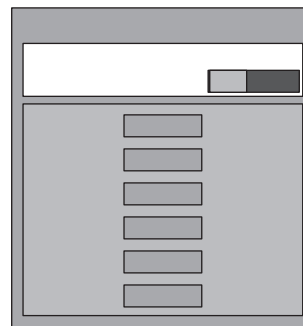
Press to select VIEW E PROGRAMS?.*

Press to select NO or YES.

NO : Cannot view programs with E signals.

YES : Can view programs with E signals.

*E means Exempt.



7

Press to select the rating.

Press to lock or unlock the rating.

Lock : Red

Unlock : Green

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.
P G	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+ ans Programming restricted to adults. Contains constant violence or scenes of extreme violence.

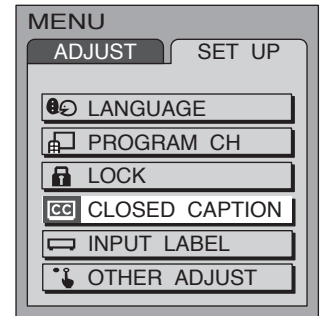
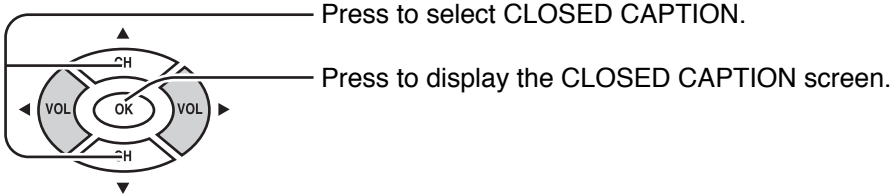
CLOSED CAPTION

This unit has a built in decoder that provides a visual depiction of the audio portion of a television program in the form of written words across the screen (white or colored letters on a black background). It allows you to read the dialogue of a television program or other information.

Note:

This feature is available only with the 480i input signal and with programs that include closed captions.

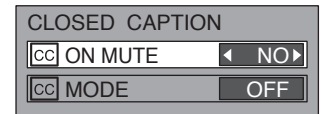
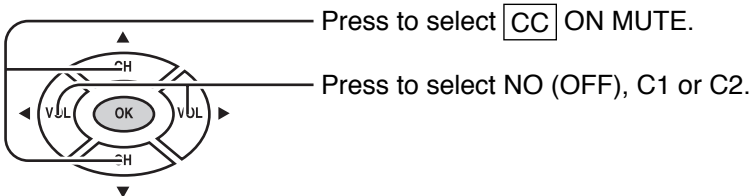
1 Press the MENU button to display the MENU screen and select SET UP.



CC ON MUTE

Displays the On-Screen Closed Caption when the MUTE button is pressed. To delete the closed caption, press the MUTE button again.

2 - 1



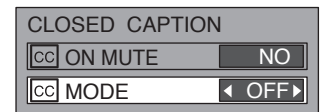
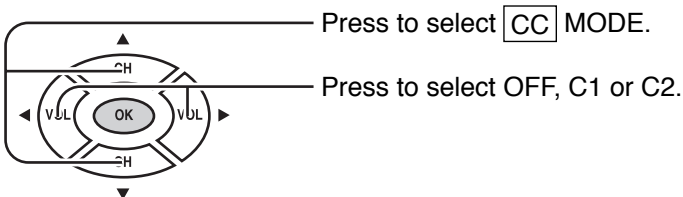
Notes:

- To activate this feature, set **CC** MODE to OFF.
- The program must have Closed Caption.

CC MODE

Displays the On-Screen Closed Caption.

2 - 2

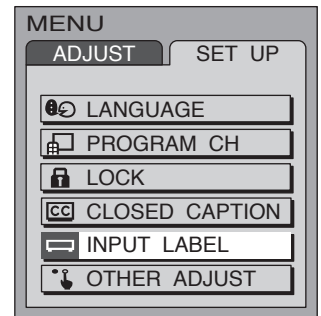
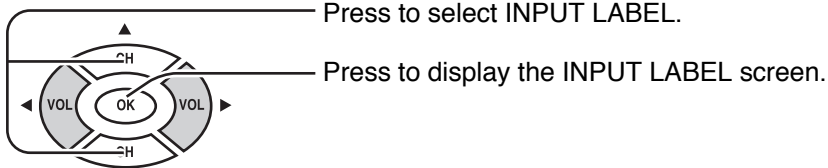


- **OFF (NO)** Recommended mode when Closed Caption is not being used.
- **C1** For video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture).
- **C2** Another mode used for video related information.

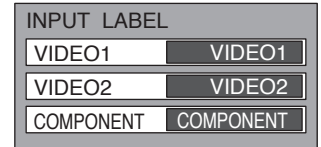
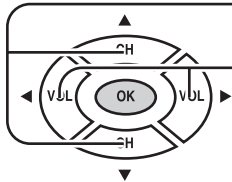
INPUT LABEL

You can change the video input labels displayed on the screen to match the connected device (VCR, DVD player, etc.).

- 1** Press the MENU button to display the MENU screen and select SET UP.



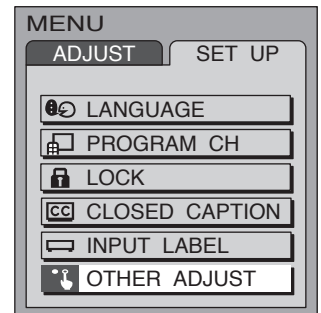
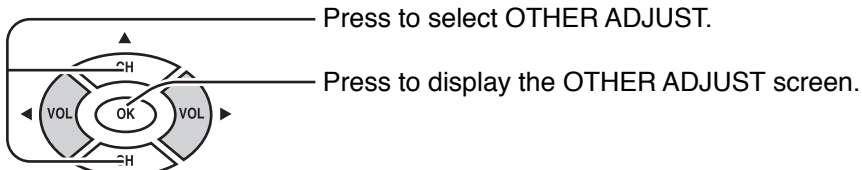
- 2**
- Press to select the video input (VIDEO1, VIDEO2 or COMPONENT).
 Press to select the INPUT LABEL. (VIDEO1/VIDEO2/COMPONENT, VCR, LD, GAME, DVD, DTV, SKIP* or [BLANK])



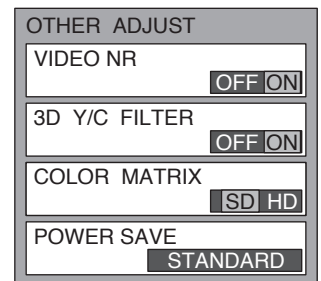
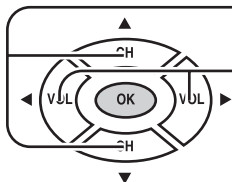
* Select to skip unused video input when pressing TV/VIDEO button.

OTHER ADJUST

- 1** Press the MENU button to display the MENU screen and select SET UP.



- 2**
- Press to select the item.
 Press to select the setting.



VIDEO NR

Reduce video noise in the picture.

OFF ←→ ON

3D Y/C FILTER

Minimizes noise and cross color in the picture.

Not available for COMPONENT VIDEO INPUT and S-VIDEO INPUT.

OFF ←→ ON

COLOR MATRIX

Displays input signals (480p signals) in natural color. Automatically adjusts color parameters for HD (high definition) and SD (standard definition).

SD ←→ HD

Note:

COLOR MATRIX is effective only when 480p signal is input in COMPONENT input mode.

In any other case the indication of COLOR MATRIX becomes blue, and changing between SD and HD is not possible.

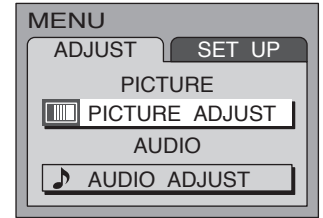
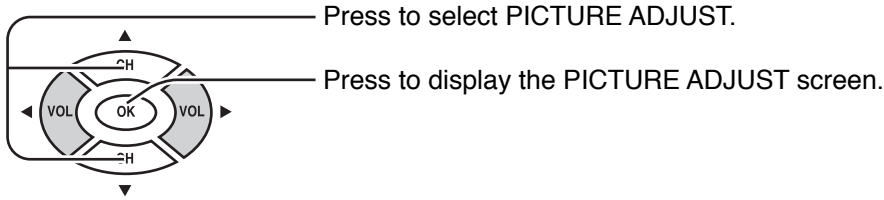
POWER SAVE

Reduces screen brightness to lower power consumption. Eye-friendly for viewing in a dark room.

STANDARD ←→ SAVING

PICTURE ADJUST

1 Press the MENU button to display the MENU screen and select ADJUST.

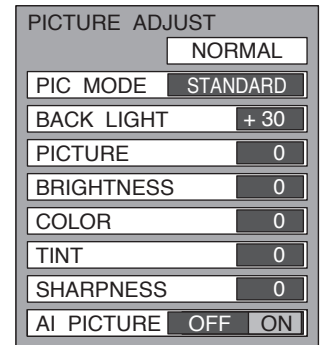
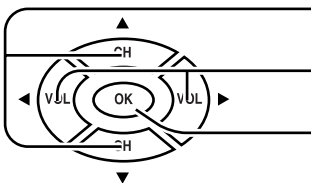


2

Press to select the sub-menu.

Adjust the setting while watching the picture behind the menu.

Press to activate the setting if necessary.



NORMAL/NORMALIZE

Select "NORMALIZE" and press "OK" button to return each PIC MODE to the factory default setting.

Notes:

- "NORMAL" means the PIC MODE is at the factory default setting. "NORMAL" changes to "NORMALIZE" when you change the setting of BACK LIGHT, PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS or AI PICTURE.
- You can normalize each PIC MODE separately.

PIC MODE

The picture mode is stored for TV, VIDEO1, VIDEO2 and COMPONENT individually.

MODE	Function
STANDARD	Displays a standard image for average lighting conditions.
CINEMA	Ideal for watching movies in a dark room.
VIVID	Displays a clear image with high contrast in a bright room.

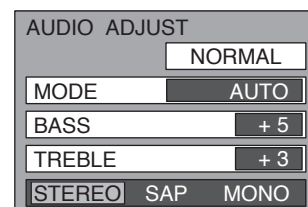
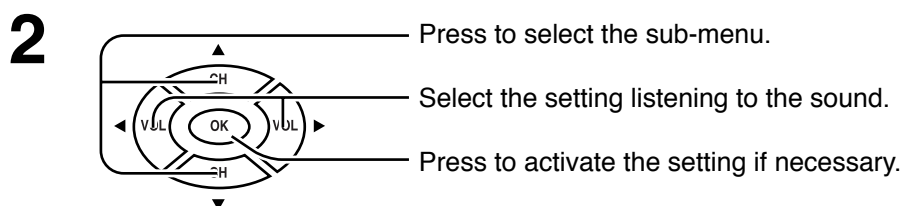
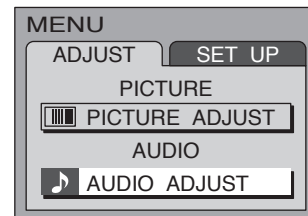
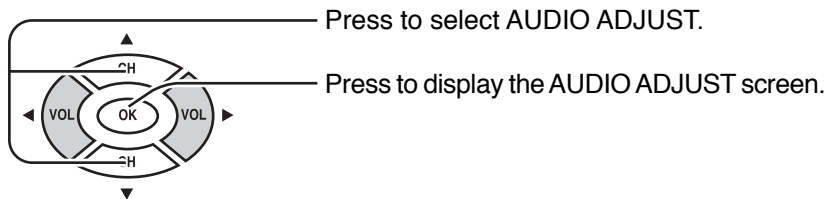
BACK LIGHT, PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS, AI PICTURE

You can change the sub-menu settings (BACK LIGHT, PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS and AI PICTURE) for each PIC MODE (STANDARD, CINEMA, and VIVID) according to your personal preference.

Sub-menu	Function
BACK LIGHT	Luminance of the back light is adjusted.
PICTURE	Selects proper contrast and density for the room.
BRIGHTNESS	Adjusts for easier viewing of dark pictures such as night scenes.
COLOR	Adjusts the level of color.
TINT	Adjusts for flesh tone color (more green or more red).
SHARPNESS	Adjusts the degree of sharpness.
AI PICTURE	Displays black and white more accurately when turned ON.

AUDIO ADJUST

1 Press the MENU button to display the MENU screen and select ADJUST.



NORMAL/NORMALIZE

Select "NORMALIZE" and press "OK" button to return each MODE to the factory default setting.

Notes:

- "NORMAL" means the MODE is at the factory default setting. "NORMAL" changes to "NORMALIZE" when you change the setting of BASS or TREBLE.
- You can normalize each MODE separately.

MODE

MODE	Function
AUTO	Automatically adjusts for a wide Dynamic Range.
STANDARD	Emits the original sound.
DYNAMIC	Gives contrast to sound.
MUSIC	For programs consisting mainly of music. Enhances high sounds (around 4 kHz).

BASS, TREBLE

You can change the level of each sub-menu (BASS and TREBLE) for each MODE (AUTO, STANDARD, DYNAMIC and MUSIC) according to your personal preference.

Sub-menu	Function
BASS	Adjusts low frequencies.
TREBLE	Adjusts high frequencies.

STEREO/SAP/MONO

Notes:

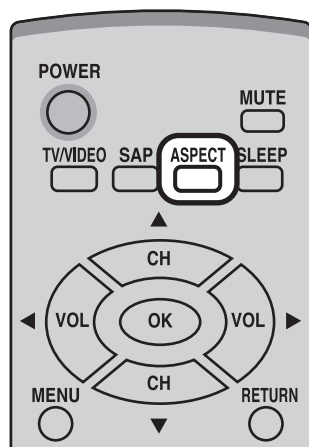
- Red display : With signal
- White display : No signal
- White display (All modes) : MONO
- To change the mode using SAP button (see page 12).

MODE	Function
STEREO	Two channel audio reception.
SAP	Second Audio Programming (typically used for bilingual audio).
MONO	Select when stereo signal is weak.

ASPECT Controls

(For Video input only)

This feature allows you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.



ASPECT

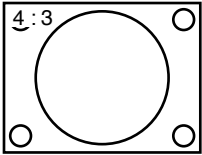
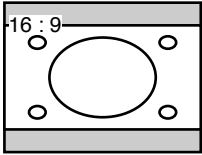


Each time you press the button:

4 : 3 ↔ 16 : 9

Notes:

- The aspect setting is stored separately for VIDEO1, VIDEO2 and COMPONENT.
- In TV mode, the aspect is fixed at 4:3.

Mode	Picture	Explanation
4 : 3		4:3 mode will display a 4:3 picture at its standard 4:3 size without any stretching.
16 : 9 (not available in TV mode)		16:9 mode will display 16:9 aspect ratio picture. Bars can be seen at the top and bottom of the image (not available in TV mode).

Manual de instrucciones [Resumen]

Estimado cliente de Panasonic

Bienvenido a la familia de clientes de Panasonic.

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

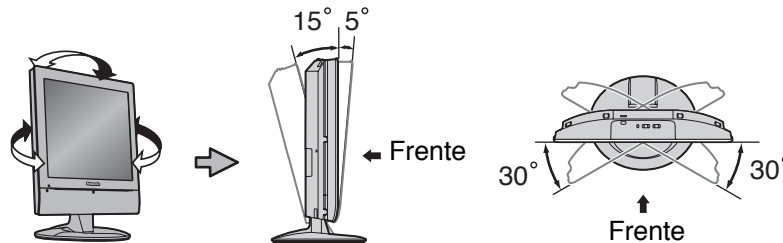
Para obtener el máximo beneficio de su aparato, lea estas instrucciones antes de hacer cualquier ajuste, y guárdelas para poder utilizarlas como referencia en el futuro.

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.

Instalación

Ajuste el soporte con el ángulo deseado

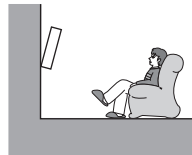
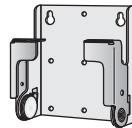
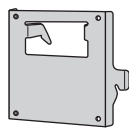
El ángulo del soporte se puede ajustar entre 5° hacia delante y 15° hacia atrás, y se puede girar 30° hacia la derecha/izquierda.



Modo de colgar el televisor LCD en la pared

Este televisor LCD solamente puede ser utilizado con el accesorio opcional siguiente. Si se utiliza con cualquier otro tipo de accesorio opcional podrá producir inestabilidad con la consiguiente posibilidad de ocasionar heridas.

- Soporte para colgar en pared TY-WK22LR1W

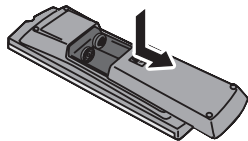


Asegúrese siempre de pedir a un técnico cualificado que le haga la instalación.

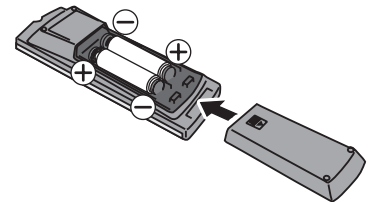
Instalación de las pilas del mando a distancia

Se necesitan dos pilas AA.

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.



⚠ Precauciones relacionadas con la utilización de las pilas

La instalación incorrecta de las pilas puede causar fugas en las mismas que podrían estropear el transmisor de mando a distancia.

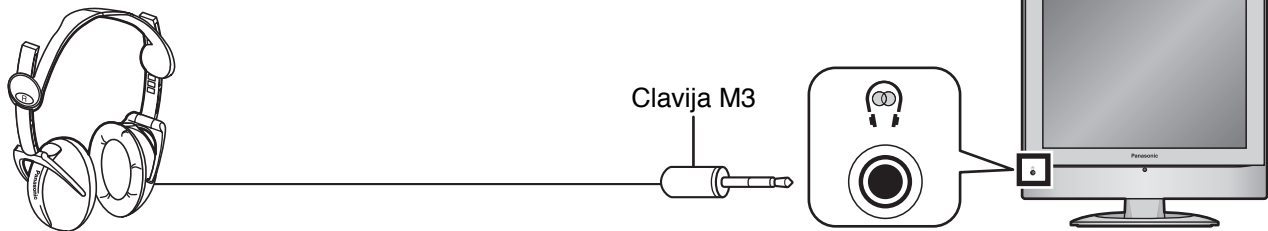
Las pilas deben desecharse por medios ecológicos.

Tome las precauciones siguientes:

1. Utilice siempre pilas nuevas cuando reemplace las viejas.
2. No intente cargar, cortocircuitar, desarmar, calentar o quemar las pilas usadas.
3. Las pilas deberán cambiarse cuando el mando a distancia funcione esporádicamente o no pueda controlar esta unidad.

Conexión de auriculares

(No suministrado)



Conexión/desconexión de la alimentación

Conexión de la clavija a la toma de corriente

Nota:

El televisor consumirá algo de corriente siempre que el enchufe del cable de alimentación esté introducido en la toma de corriente.

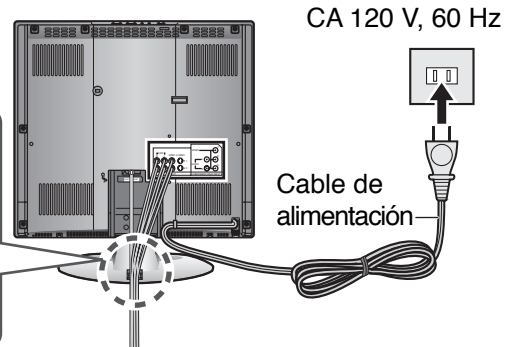
Para unir y atar los cables con la abrazadera

1. Tire hacia arriba.
2. Ponga juntos los cables y cierre la abrazadera.



Nota:

No ponga el cable de la antena y el cable de la alimentación juntos para evitar ruidos.

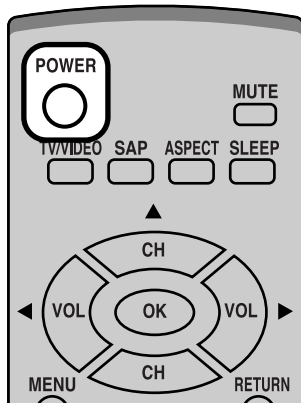


Interruptor
POWER
principal



Indicador de la
alimentación

Sensor de mando
a distancia



En el aparato principal



Púselo para conectar/desconectar la alimentación principal del televisor.

- Indicador de la alimentación

Alimentación principal conectada: Verde

Alimentación principal desconectada: Apagado

La pantalla de abajo se visualiza durante un rato cuando se enciende el televisor.

Ej.:



En el mando a distancia



Púselo para encender/apagar el televisor.

- Indicador de la alimentación

Encendido: Verde

Apagado (En espera): Rojo

- Esto no funciona cuando la alimentación principal está desconectada (apagado) (consulte arriba).

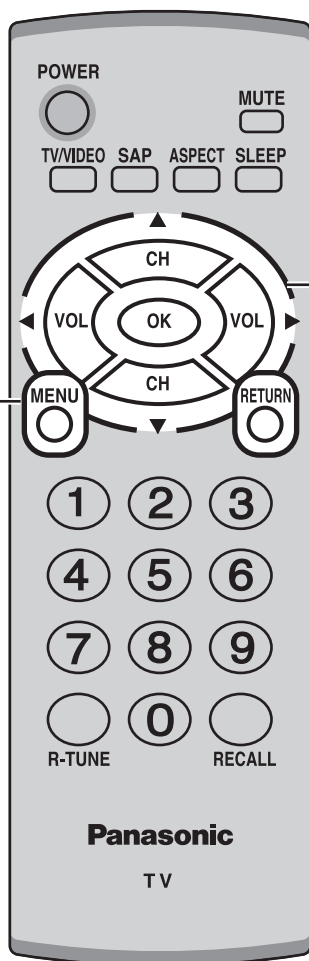
Nota:

Seleccione el idioma de menú antes de utilizar el televisor (consulte la página 27, Idioma).

Operaciones con menús

1

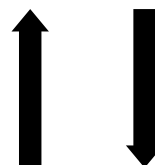
Púselo para visualizar la pantalla MENU.

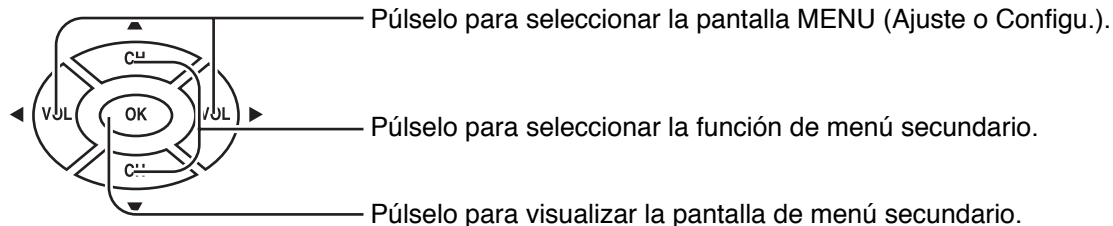


2

Cuadro de instrucciones de ayuda en pantalla

Cuando se visualiza un menú en el televisor aparece un cuadro de ayuda en la pantalla. Este cuadro de ayuda indica qué teclas del mando a distancia se utilizan para navegar por el menú mostrado.





• Para volver a la pantalla anterior :

RETURN



• Para salir de la pantalla MENU :

MENU



Con esto se retorna a la visión normal.

Ajuste Imagen

Normal

Imagen Normal

Luz Posterior +30

CONTRASTE 0

BRILLO 0

COLOR 0

TINTE 0

NITIDEZ 0

Imagen IA No Si

Ajuste Sonido

Normal

Sonido Auto

BAJOS +5

ALTOS +3

ESTEREO SPA MONO

Idioma

Idioma ESPAÑOL

Seleccione el idioma del menú.

ENGLISH FRANÇAIS

ESPAÑOL

Prog. Canales

MODO TV CABLE

PROGRAMA AUTO

PROGRAMA MANUAL

Bloqueo

Programas:

Películas de EEUU

Activado No Si

Modificar

INGRESAR CLAVE

Subtítulos

cc EN MUDO No

MODO No

Ponga Títulos

Video1 Video1

Video2 Video2

Componente Componente

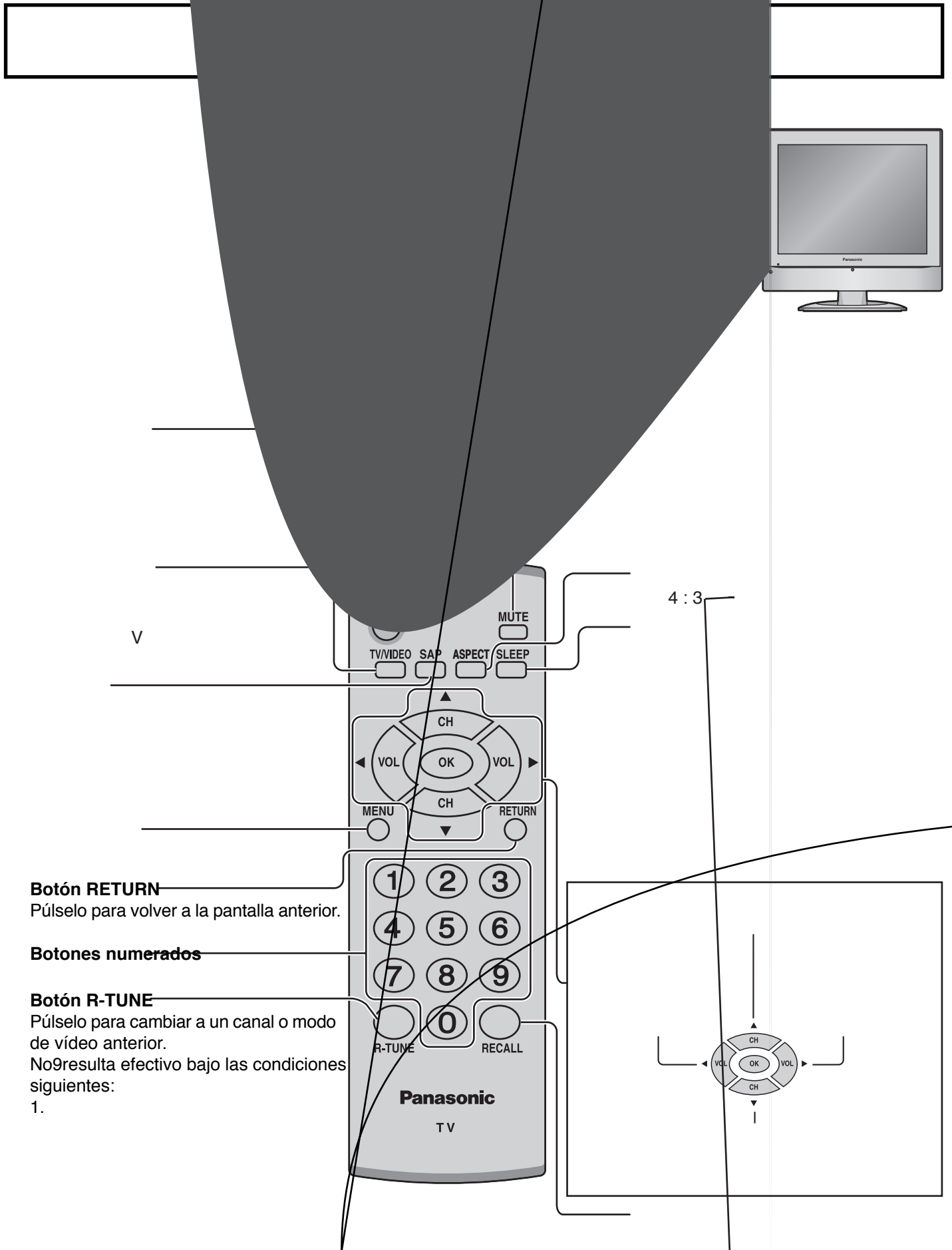
Otro Ajuste

REDUC DE RUIDO No Si

3D Y/C Filtro No Si

Matriz Color DS HD

ECON ENERGÍA ESTÁNDAR



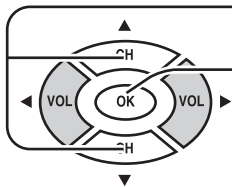
Botón RETURN
 Púlselo para volver a la pantalla anterior.

Botones numerados

Botón R-TUNE
 Púlselo para cambiar a un canal o modo de vídeo anterior.
 No resulta efectivo bajo las condiciones siguientes:
 1.

Sintonización de canales

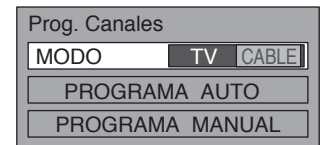
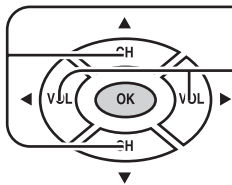
- 1 Pulse el botón TV/VIDEO para visualizar el canal de TV.
- 2 Pulse el botón MENU para visualizar la pantalla MENU y seleccione Configu.
Pulse para seleccionar Prog. Canales.



Pulse para visualizar la pantalla Prog. Canales.

[Selección del mode]

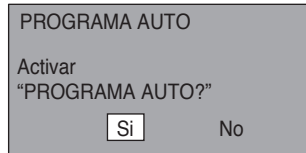
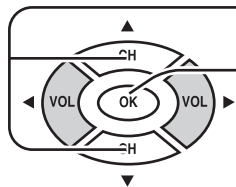
- 3 Pulse para seleccionar MODO.
Pulse para seleccionar TV o CABLE.



Programación automática de canales

Explora y guarda automáticamente todos los canales de TV.

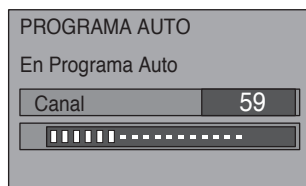
- 4 Pulse para seleccionar PROGRAMA AUTO.
Púselo para visualizar la pantalla PROGRAMA AUTO.



Púselo para seleccionar Si.

5

Púselo para iniciar PROGRAMA AUTO.



Los canales avanzarán automáticamente hasta que todos ellos hayan sido explorados. Los números de los canales con señal de vídeo recibida se guardarán en la memoria de canales.

Notas:

- Cuando se pulse cualquier botón durante PROGRAMA AUTO, el televisor volverá a mostrar la imagen normal. (Los canales encontrados hasta ese punto se añaden.)
- Después de terminar PROGRAMA AUTO se visualizará el número del canal más bajo añadido.
- Cuando no hay canal que puedan recibirse, se visualizará el canal 69 (para TV) o el canal 125 (para TV por cable).

Programación automática de canales

Añada o borre un canal manualmente.

- 4 Pulse para seleccionar PROGRAMA MANUAL.
Pulse para visualizar la pantalla PROGRAMA MANUAL.

5

Pulse para seleccionar canal.
• También puede utilizar los botones numerados.

6

Púselo para añadir el canal a la memoria de canales (el número del canal se pone de color azul).

Púselo para borrar el canal de la memoria de canales (el número del canal se pone amarillo).

Symptoms

I
c
number

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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:

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Maintenance

To clean this unit, wipe with a soft, dry cloth.

If the surfaces are extremely dirty, use a soft cloth dipped in a soap and water solution or a weak detergent solution.

- Use eyeglass cleaner to remove stubborn dirt from the LCD.
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using a chemically treated cloth, carefully read the instructions that came with the cloth.

CAUTION :

If water or similar substances get inside the monitor via the liquid crystal panel surface, a malfunction may result.



Specifications

TC-20LE50	
Power Source	AC 120 V, 60 Hz
Power Consumption	Average use : 56 W (Maximum Current 1.3 A) Stand-by condition : 0.11 W Power off : 0.10 W
LCD	640 × 480 pixels 4:3 aspect ratio LCD panel
Screen Size (W × H × diagonal)	15.9 " × 11.9 " × 19.9 " (406.0 mm × 304.5 mm × 507.6 mm)
Channel Capability	VHF-12 : UHF-56 : Cable-125
Sound	
Speaker	5 cm × 9 cm, 2 pcs, 16 Ω
Speaker Output	6 W [3 W + 3 W] (10%THD)
Headphones	M3 (3.5 mm) Jack × 1
FEATURES	
Operating Conditions	3D Y/C Digital Comb Filter CLOSED CAPTION V-Chip Temperature : 41 °F - 95 °F (5 °C – 35 °C) Humidity : 5 % - 90 % RH (non-condensing)
Connection Terminals	
INPUT	VIDEO (RCA PIN Type × 1) × 2 1.0 Vp-p (75 Ω)
	S-VIDEO (MINI DIN 4pin × 1) × 2 Y : 1.0 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω)
	AUDIO L-R (RCA PIN Type × 2) × 2 0.5 Vrms
COMPONENT VIDEO INPUT	Y × 1 1.0 Vp-p (including synchronization)
	P _B / P _R × 1 ±0.35 Vp-p
	AUDIO L-R (RCA PIN Type × 2) × 1 0.5 Vrms
Dimensions (W × H × D)	
Including TV Stand	19.6 " (498 mm) × 19.9 " (506.2 mm) × 10.2 " (260 mm)
TV Set Only	19.6" (498 mm) × 17.7 " (450.2 mm) × 3.6 " (93 mm)
Mass (Weight)	15.4 lb. (7.0 kg) Net

Note:

Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.

Customer's Record

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

Model Number _____

Serial Number _____

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

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