Panasonic®

LCD TV
Operating Instructions

Model No. **TC-26LX20**
TC-32LX20

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)**
For assistance, please call : 1-800-561-5505
or visit us at www.panasonic.ca **(Canada)**

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

English
Español **[Resumen]**

TQBC0781

Important Safety Instructions

CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**

The lightning flash with arrow head within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

■ **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.
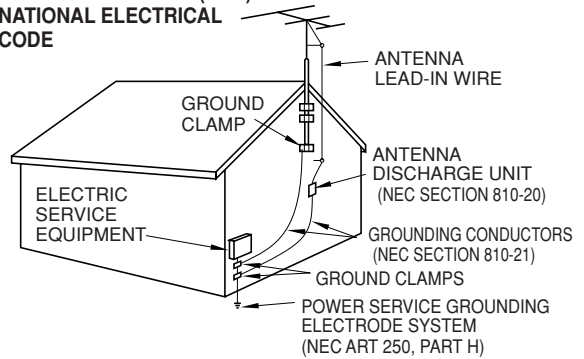
■ **Important Safety Instructions for LCD TV**

1) Read these instructions.
   All the safety and operating instructions should be read before the appliance is operated.
2) Keep these instructions.
   The safety and operating instructions should be retained for future reference.
3) Heed all warnings.
   All warnings on the appliance and in the operating instructions should be adhered to.
4) Follow all instructions.
   All operating and use instructions should be followed.
5) Do not use this apparatus near water.
   For example, near a bathtub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
6) Clean only with dry cloth.
   Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
   Slots and Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
   This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
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.
    Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
    This will prevent damage to the product due to lightning and power-line surges.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

16) 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. Selection 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.

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

ANTENNA LEAD-IN WIRE

GROUND CLAMP

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

ELECTRIC SERVICE EQUIPMENT

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)

17) 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.

18) Unplug this LCD TV from the wall outlet, and refer servicing to qualified service personnel under the following conditions:
   a. When the power cord or plug is damaged or frayed.
   b. If liquid has been spilled into the LCD TV.
   c. If the LCD TV has been exposed to rain or water.
   d. 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.

19) 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.

20) **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.)

21) **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.

NOTE:
- This equipment is designed to operate in the U.S.A. and other countries where the broadcasting system and AC house current is exactly the same as in the U.S.A.
- 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 permanent "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 irreversible LCD panel deterioration can be limited by observing the following steps:
   A. Reduce the brightness / contrast setting to a minimum viewing level.
   B. Do not display the fixed image for extended periods of time.
   C. 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.**

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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For assistance, please call : 787-750-4300 **or visit us at www.panasonic.com**   **(Puerto Rico)**
For assistance, please call : 1-800-561-5505 **or visit us at www.panasonic.ca**   **(Canada)**

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.

ENERGY STAR

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. Energy Star compliant products generally consume less energy than similar standard products.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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

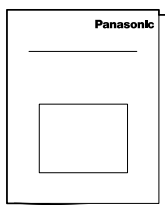# Table of Contents

SUPPLIED ACCESSORIES

Check the accessories before installations.
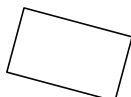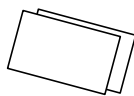
- Operating Instruction book
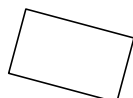- Remote Control Transmitter (EUR7603ZG0)
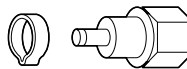- Batteries for the Remote Control Transmitter (2 × AA size)

- Warranty Card
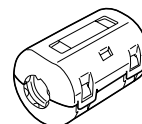- Service Center List (For U.S.A.)
- Customer Card (For U.S.A.)
- F-Type Antenna Connector (for 4C-2V) (× 1)
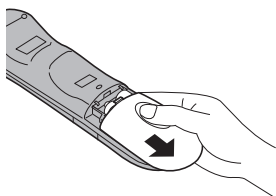- Ferrite core (for HDMI cable) (× 1)
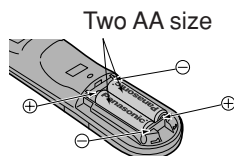
SUPPLIED ACCESSORIES / Installation
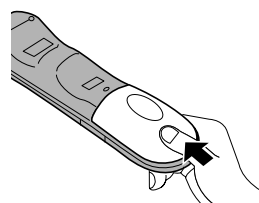
Remote control battery installation

Requires two AA batteries.

1. Open the battery cover.

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

   Two AA size

3. Replace the cover.

⚠ Precaution on battery use

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

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.

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 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.
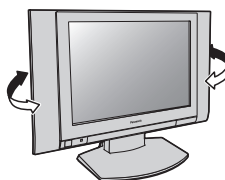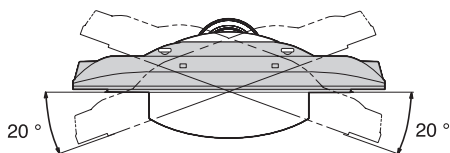
How to hang the LCD TV on the wall
This LCD TV is for use only with the following optional accessory. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

● Wall-hanging bracket TY-WK32LX20W
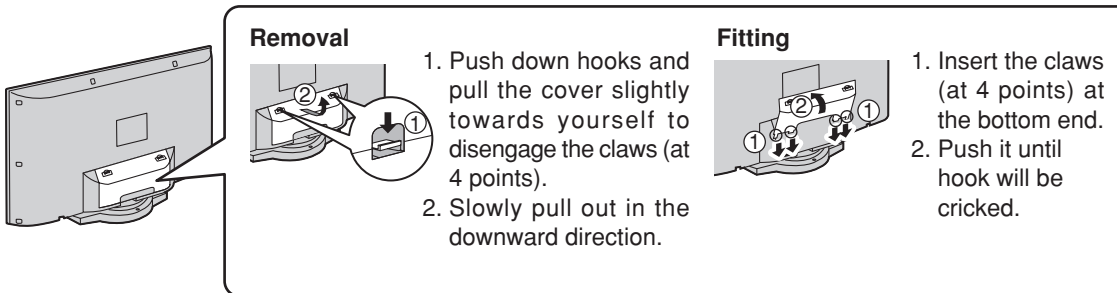
Always be sure to ask a qualified technician to carry out set-up.

How to use the LCD stand
Adjust the stand to your desired angle. The stand angle can be adjusted between 20 ° left to 20 ° right.

20 °   20 °

Connections

Cover removal and fitting

Removal

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

Fitting

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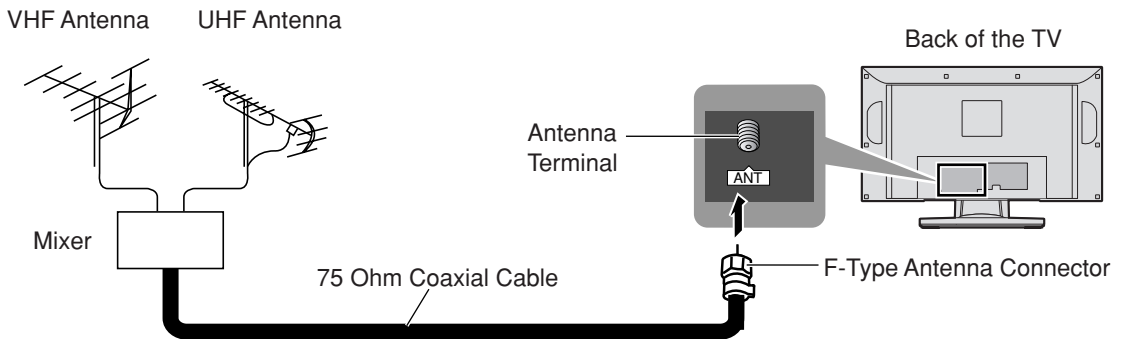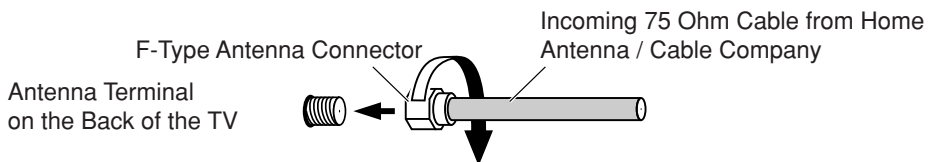2. Push it until hook will be cricked.

Note:
Separate the RF cable and the power cord to avoid interference appearing on the screen.

Antenna Connection

For proper reception of VHF / UHF channels, an external antenna is required. For best reception an outdoor antenna is recommended. The antenna mode must be set to TV (see page 22, MODE).

VHF Antenna   UHF Antenna

Back of the TV

Antenna Terminal

ANT

Mixer

75 Ohm Coaxial Cable

F-Type Antenna Connector

■Cable / Antenna Connection

Incoming 75 Ohm Cable from Home Antenna / Cable Company

F-Type Antenna Connector

Antenna Terminal on the Back of the TV

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Cable Box Connection

- For reception of cable channels (01 - 125), connect the cable supplied by your local cable company. The antenna mode must be set to CABLE (see page 22, MODE).
- 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.
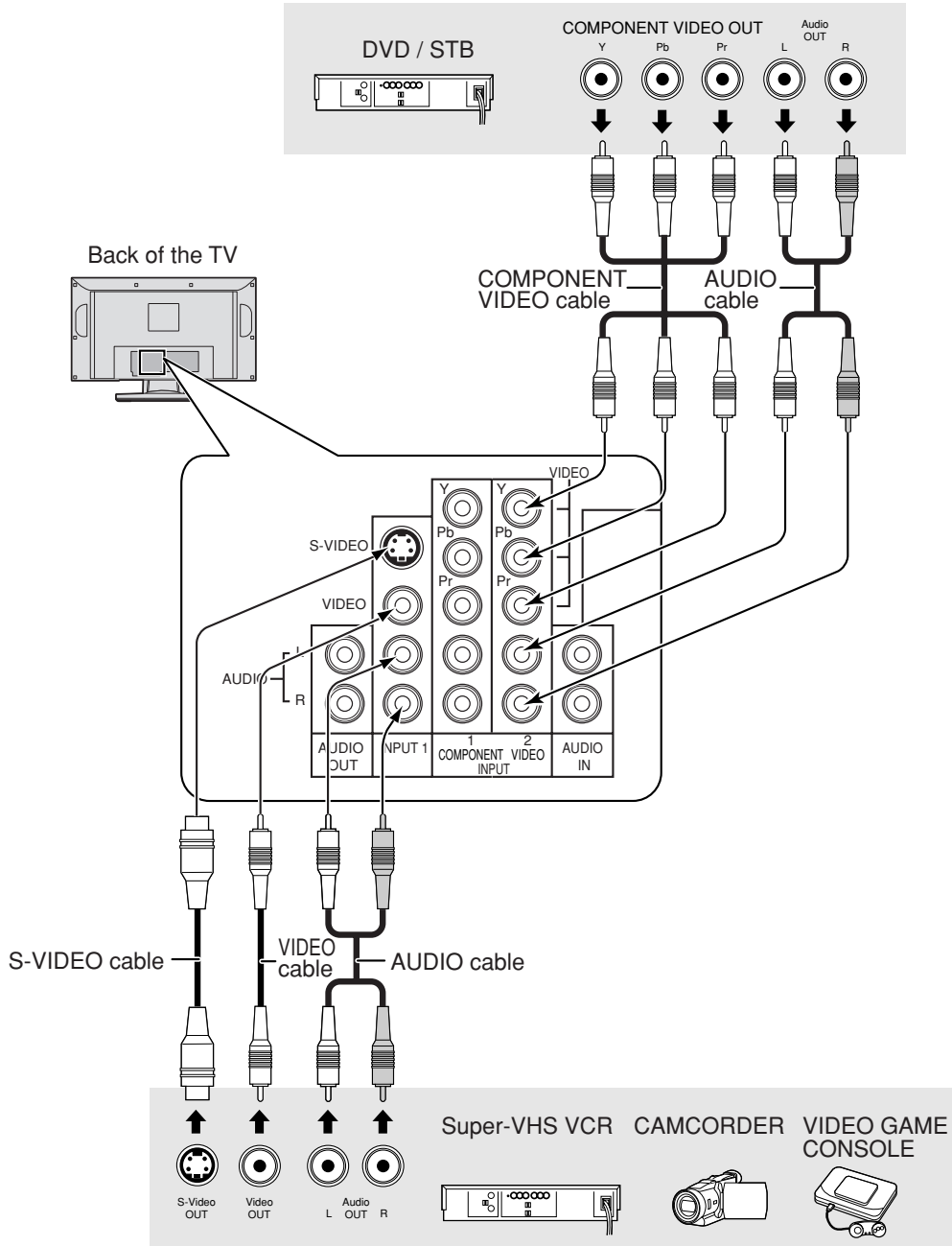- Set the TV channel to CH3 or CH4, cable when using this connection.

Cable Box

Back of the TV

CABLE BOX

OUTPUT   INPUT

ANT

Incoming 75 Ohm Cable
from Cable Company

Cable Box and VCR

Back of the TV

CABLE BOX

OUTPUT   INPUT

ANT

Incoming 75 Ohm Cable
from Cable Company

ANT INPUT

ANT OUTPUT

OUTPUT

S VIDEO   VIDEO   L-AUDIO-R

VCR

8
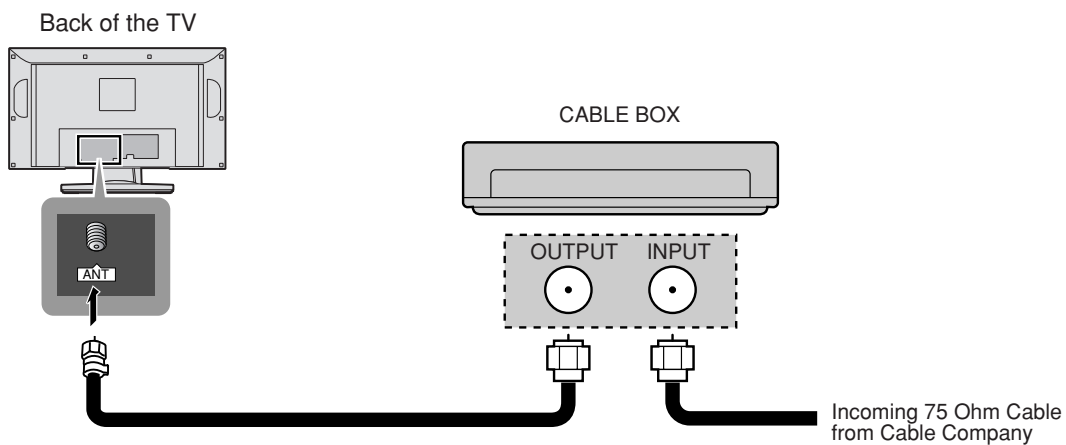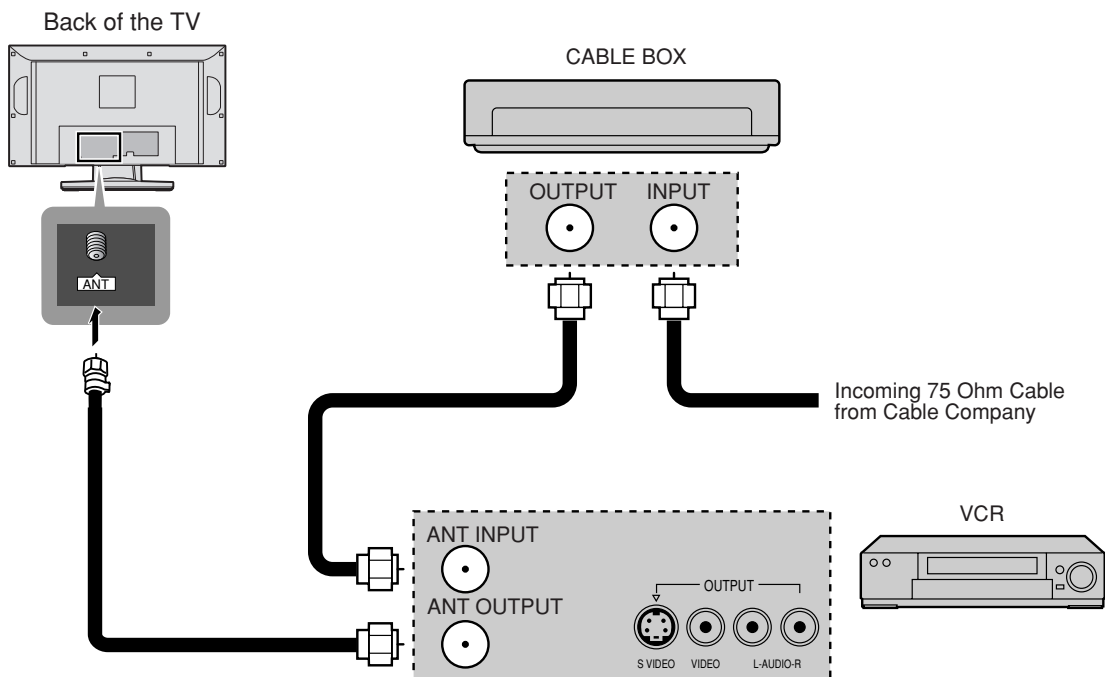
Connecting Other Equipment

Rear Input Terminals

DVD / STB

COMPONENT VIDEO OUT
Y   Pb   Pr

Audio OUT
L   R

COMPONENT VIDEO cable   AUDIO cable

Back of the TV

VIDEO
Y
Pb
Pr

S-VIDEO

VIDEO

AUDIO
L
R

AUDIO OUT   INPUT 1   1   2   COMPONENT   VIDEO   AUDIO IN
                        COMPONENT INPUT

S-VIDEO cable   VIDEO cable   AUDIO cable

S-Video OUT   Video OUT   Audio OUT L   R

Super-VHS VCR   CAMCORDER   VIDEO GAME CONSOLE

Notes:
- When connecting video cables, priority is given to the S-Video cable when both the S-VIDEO input terminal and the VIDEO input terminal are connected.
- Please make inquiries to video game manufacturers concerning component cables to connect with video game console.

Connections

Rear Output Terminals

Back of the TV

AUDIO cable

Audio IN L R

VIDEO

S-VIDEO

VIDEO

AUDIO

ANT

Y Pb Pr

Y Pb Pr

AUDIO OUT

INPUT 1

1 COMPONENT VIDEO INPUT 2

AUDIO IN

Front Input Terminals

Front of the TV

INPUT 2

HPJ

S-VIDEO   VIDEO   L -AUDIO- R

AUDIO cable

R

Audio OUT

L

CAMCORDER

VIDEO cable

Video OUT

S-VIDEO cable

S-Video OUT

VIDEO GAME CONSOLE
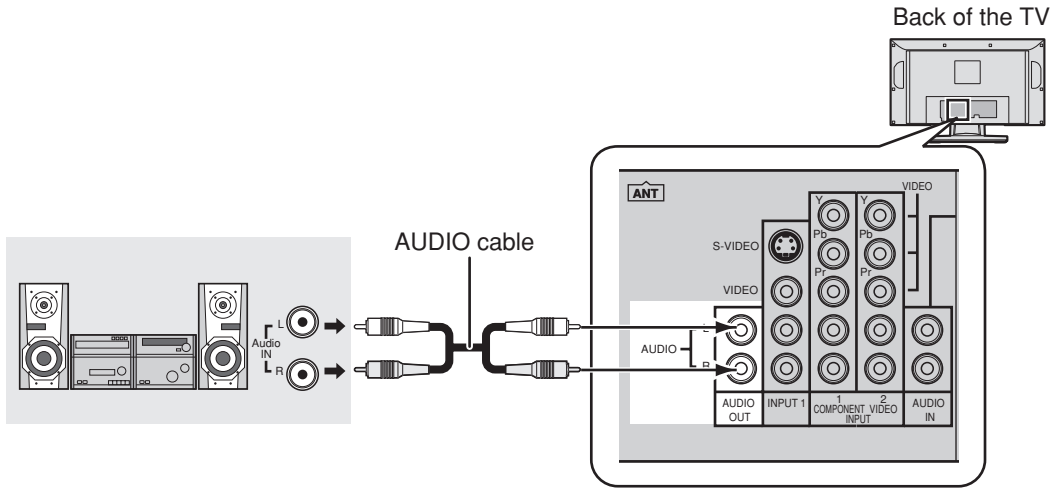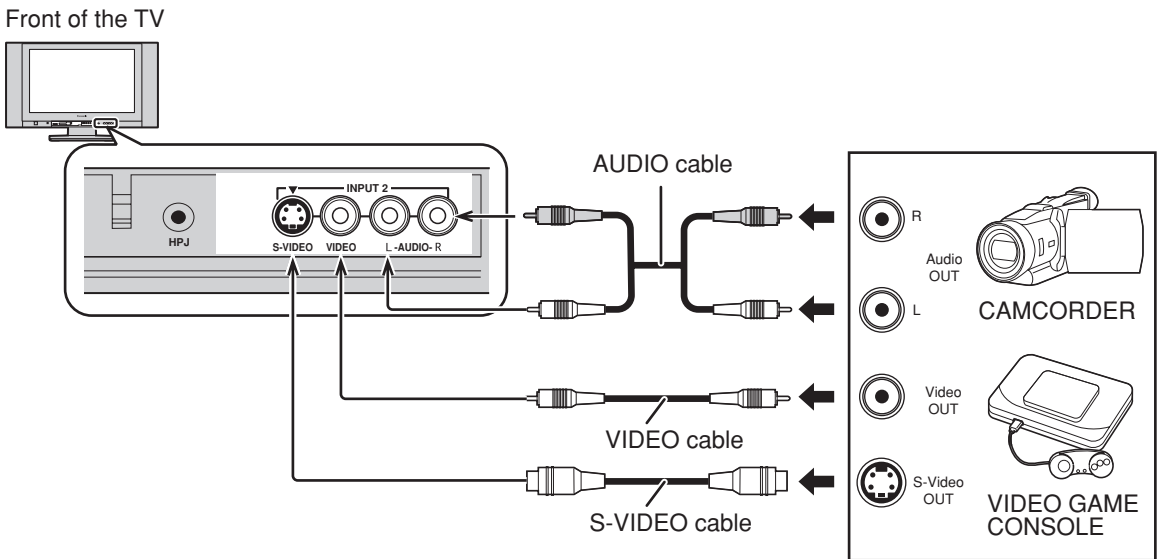
Connecting Headphones / Earphones

Front of the TV

M3 plug

INPUT 2

HPJ

S-VIDEO   VIDEO   L -AUDIO- R

(Not supplied)

10
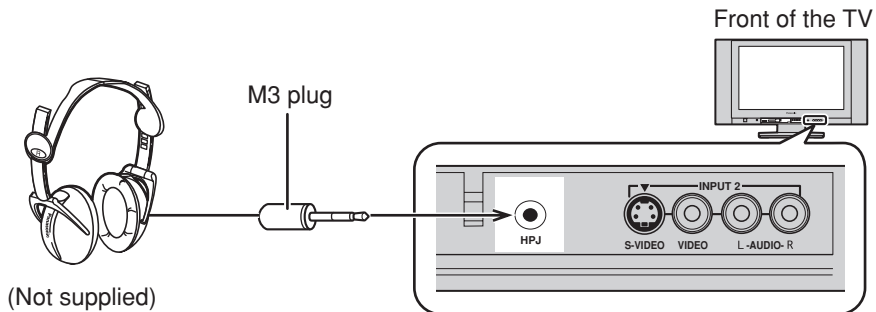
HDMI Connection

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

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

Attach just beside the connector.

Set Top Box

HDMI or DVI signal out

DVD player

Audio cable   Ferrite core   HDMI cable
              (small size)   (supplied)
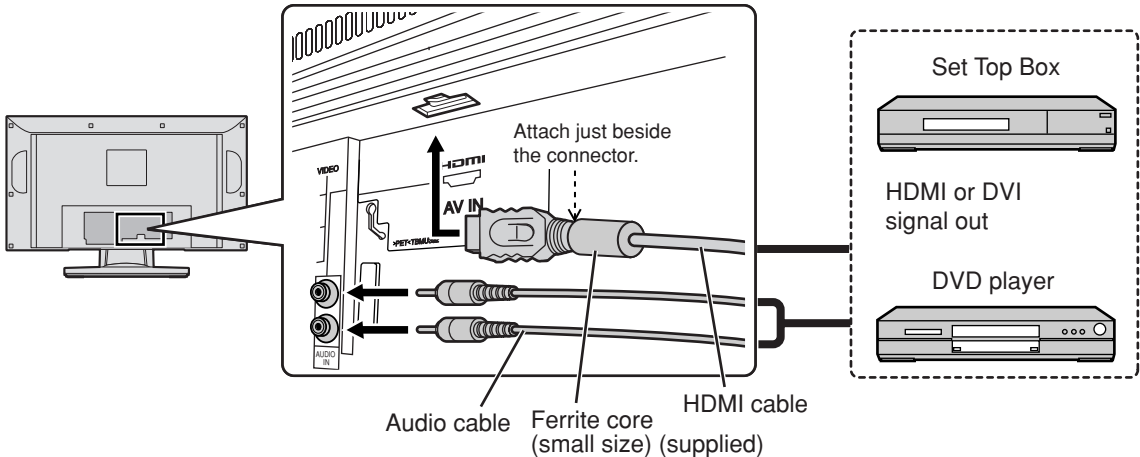
Notes:
• If the external device has DVI output only, use a DVI to HDMI adapter cable*3 to connect to the HDMI terminal.
• Connect the audio cables to the AUDIO IN terminals for HDMI.
• Select the audio setting in HDMI IN (see page 32).

Attaching the ferrite core

1   **2**

Pull back the tabs (in two   Put the cable
places) to open.   and close.
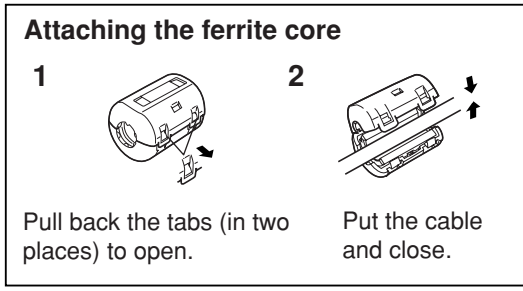
■ **Compatible VIDEO Signal**

	No. of dots (H × V)	Vertical scanning frequency (Hz)
1080i	1,920 × 1,080i	59.94 / 60
720p	1,280 × 720p	59.94 / 60
480p	720 × 480p	59.94 / 60
	640 × 480p	59.94 / 60
480i	720(1,440) × 480i	59.94 / 60

This input terminal is not intended for use with computers.

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

Notes:
• This HDMI connector is Type A.
• If you connect an equipment without a digital output terminal, connect to the COMPONENT VIDEO, S VIDEO or VIDEO input terminal on the TV so you can enjoy an analog signal.

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

Basic Controls

Remote Control

POWER button
Press to turn the TV on or off (see page 14).
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.

Mode Selection buttons
(see page 33)

MENU button
(see page 20)

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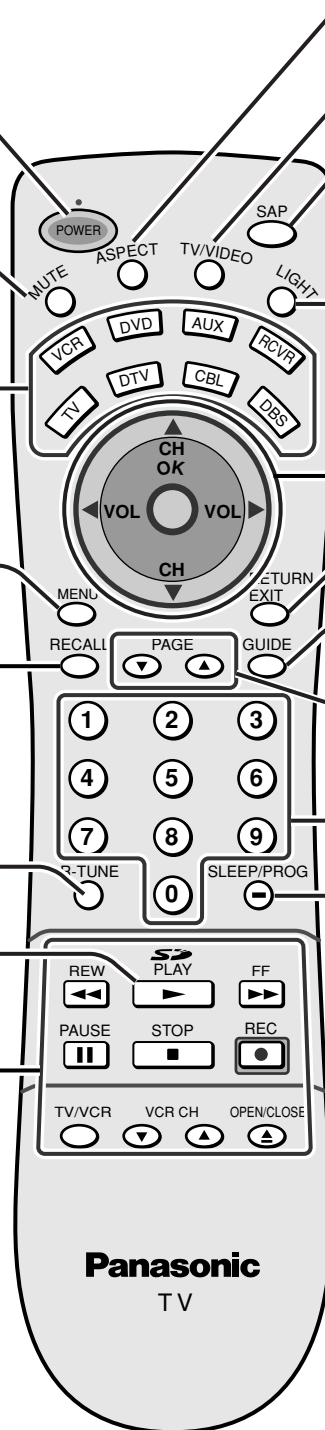Press to display channel number, sleep
timer and other options.

R-TUNE button
Press to switch to previously viewed channel or to switch
between TV mode and another input mode.

SD button
Press to access Photo Viewer™ (see page 17)

Operation of other devices
(see pages 37, 38)

POWER

ASPECT   TV/VIDEO   SAP

MUTE   LIGHT

VCR   DVD   AUX   RCVR
      DTV   CBL   DBS
TV

CH
OK
VOL   VOL
CH

MENU   RETURN
                      EXIT

RECALL   PAGE   GUIDE

1   2   3
4   5   6
7   8   9
R-TUNE   SLEEP/PROG
      0

REW   PLAY   FF
◄◄   ►   ►►
PAUSE   STOP   REC
❚❚   ■   ●

TV/VCR   VCR CH   OPEN/CLOSE

Panasonic
T V

12

ASPECT button (see page 15)

TV/**VIDEO button**
Press to change the input mode.

TV ⟶ COMPONENT 1 ⟶ COMPONENT 2
HDMI ⟵ VIDEO 2 ⟵ VIDEO 1

SAP button
Press to select the audio mode. You can
also change the mode in the MENU screen
(see page 32).

STEREO ⟶ SAP ⟶ MONO
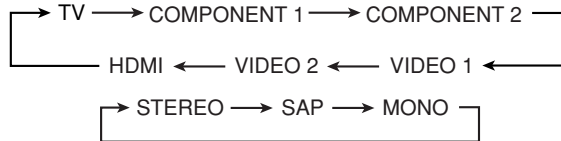
LIGHT button
Press to light the remote
control buttons.
The selected button blinks
when lit.

Channel up
Moves cursor upward during menu mode.

OK button
Choose menu and
submenu entry.

Reduces volume
Moves cursor to
the left during
menu mode.

CH
OK
VOL VOL

Increases volume
Moves cursor to
the right during
menu mode.

CH

RETURN button
Return to previous MENU (TV mode).
EXIT button
EXIT from menu (DTV, STB or PVR mode).
GUIDE button (DBS mode)

Channel down
Moves cursor downward during menu mode.

PAGE button
Page up / down (DBS mode).
Skip + / − (DVD & CD mode).
Numbered buttons

SLEEP button (TV mode)
Set the sleep time to put the TV into standby mode.

0 ⟶ 30 ⟶ 60 ⟶ 90

• 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.

PROG − button (DBS or DTV mode)
When tuning 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]

13

Main Unit

Power indicator
Power on : Green
Power off : No Light
Power off (Standby): Red

SD CARD slot   **PC CARD slot**

Volume Up / Down

POWER
R ☐ STANDBY
G – POWER ON

PUSH EJECT
☐ SD CARD   PC CARD   EJECT

TV/VIDEO ◀ VOLUME ▶   ▼ CHANNEL ▲

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

Remote control sensor
Within about 20 feet
(6 meters) in front of the
TV set.

**PC CARD
EJECT button**

TV / VIDEO button

Channel Up / Down

Power ON / OFF

Preparation
Connect the plug to the wall outlet.

Ferrite core

AC120V, 60Hz   Power cord
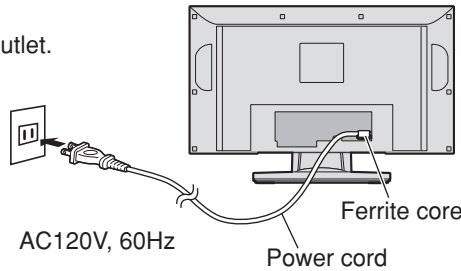
Notes:
• The TV consumes some power as long as the power cord is inserted into the wall outlet.
• Do not remove or slide the ferrite core for the safety purpose.

Main POWER
switch

Remote control sensor

Power Indicator

POWER

On the main unit
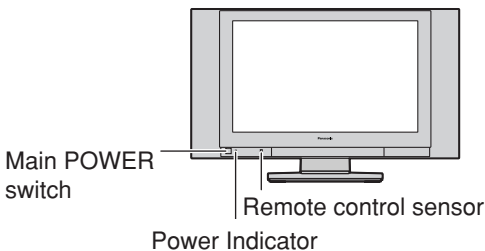
POWER
R ☐ STANDBY
G – POWER ON

Press to turn the TV's main power on / off.
• Power indicator
  Main power ON: Green
  Main power OFF: No light

On the remote control

POWER

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:
• The screen below is displayed for a few
  moments when the TV is turned on.

ZOOM   CH   6
                        STEREO
                        SAP
                        MONO
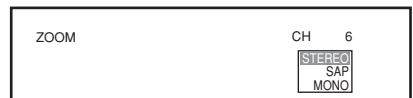
Note:
• Select the menu language before operating the TV
  (see page 21, LANGUAGE).

SAP

MUTE   ASPECT   TV/VIDEO   LIGHT

VCR   DVD   AUX   RCVR

DTV   CBL   DBS

TV

CH
OK

◀ VOL   VOL ▶

CH

MENU   RETURN
                    EXIT

14

ASPECT Controls

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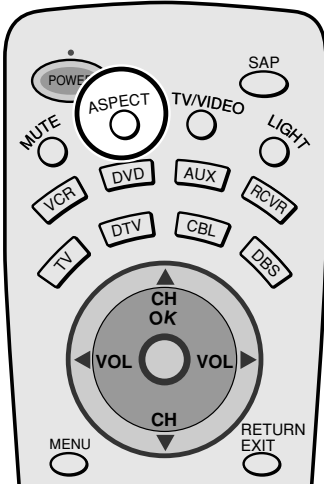
ASPECT

Each time you press the button:

→ JUST ⟶ ZOOM ⟶ FULL ⟶ NORMAL⌐

Notes:
- This feature does not work for 1080i and 720p input signals.
- This feature does not work during Photo Viewer™ thumbnail mode or single picture view mode.
- The aspect setting is stored separately for TV, VIDEO1, VIDEO2, COMPONENT1, COMPONENT2, HDMI and Photo Viewer™ Slide Show (see page 18).

Mode	Picture	Explanation
NORMAL		NORMAL mode will display a 4:3 picture at its standard 4:3 size without any stretching.
JUST		JUST mode will display a 4:3 picture at its maximum size but with aspect correction applied to the sides of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with slight elongation.

15

Photo Viewer™

Photo Viewer™ lets you display JPEG images recorded by digital still camera on SD card or other types of memory card when it is inserted in the proper card slot.

Compatible card type and card size

SD card slot
- SD Card (512MB)
- Multi Media Card (128MB)
- miniSD Card∗ (128MB)

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

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

∗ miniSD Card requires miniSD adapter.

- Photo Viewer™ 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 PCMCIA card are inserted in the slot, SD card has the priority.

■ Card Data Protection
- Do not remove the card while Photo Viewer™ is accessing the information (when the card icon is flashing). Such action may damage the memory card or the unit itself.
- Before inserting or removing the PCMCIA 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 / PCMCIA 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 Panasonic shall not accept any liability for damage or loss of stored data.
- **WARNING: As with any small object, an 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

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

Example folder structure
JPEG images in all the folders are displayed sequentially.

ROOT
- DCIM — Created automatically
  - 100_PANA — Folder names consist of a 3-digit folder number which is followed by five arbitrary characters.
    - P1000001.jpg
    - P1000002.jpg — File names consist of four arbitrary characters followed by a 4-digit file number.
    - P1000003.jpg
    - P1000004.jpg
  - 101_PANA
    - P1010001.jpg
    - P1010002.jpg
    - P1010003.jpg
    - P1010004.jpg
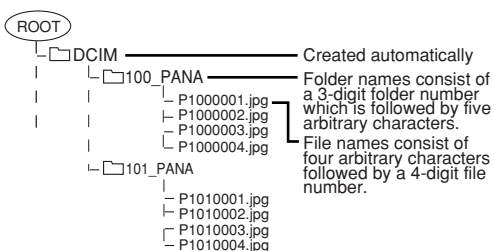
Note:
- Folder and file names may vary according to the digital still camera.
- Use the characters "a-z", "A-Z", "0-9" and "_" to name a directory or a file. Do not use two-byte characters or other special codes.

Inserting and removing a card

■ **PCMCIA card slot**
Turn the TV off before inserting or removing a PCMCIA card.

Insert the card.   Remove the card.

Holding both edges, securely insert it to the depth.

Push the eject button.

If the eject button does not pop out
Push in PCMCIA card again, and then push again the eject button.

Note:
If PCMCIA card adapter is used, remove it together with the adapter.

■ **SD card slot**
Insert the card.   Remove the card.

Label side upward

1. Raise.   2. Lower.
2. Insert it unit it clicks in.   1. Push the center of the card.

Terminal face to the depth

Align the direction of ◄ mark.

Label side upward

Thumbnail Mode

The thumbnail screen is the initial entry screen from the main menu.
• When both SD card and PCMCIA card are inserted, the TV plays SD card. To play a PCMCIA card, select "PC" in "Card" (see page 19) after inserting the PCMCIA card.

1 Insert the card into the appropriate slot (see above).

OR

Press to display the thumbnail screen.

PhotoViewer
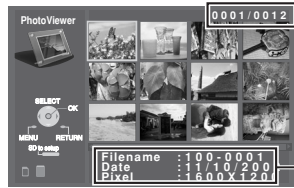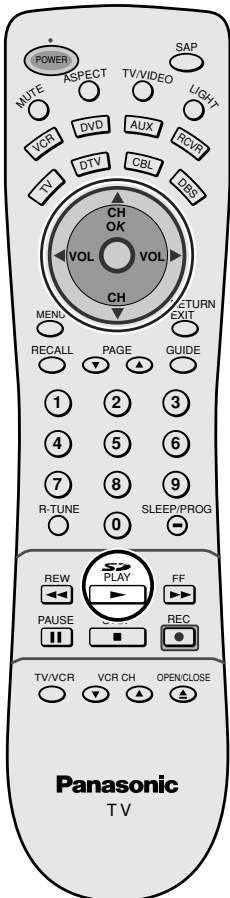
0001/0012 ←— Picture No. / Total No. of pictures

→ File name, the date and the pixel (resolution) of the picture

Filename : 1 0 0 – 0 0 0 1
Date : 1 1 / 1 0 / 2 0 0
Pixel : 1 6 0 0 X 1 2 0

Note:
• It may take long time to display the thumbnail if there are lots of files or the file size is large.
• The video disappears from the screen while the Photo Viewer™ access the information from the card. After accessing the images from the card, a thumbnail screen is displayed.

Single picture view mode

PhotoViewer 100 – 0001 0001/0012
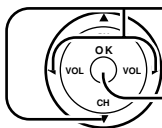
2 Select the thumbnail image.

Press to display the image in the single picture view mode.
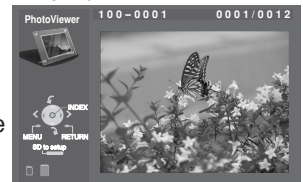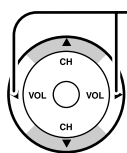
3 Press to select the next or the previous picture.
• Press **OK** to return to the thumbnail screen.

To rotate the picture

While in the single picture view mode
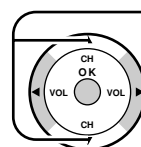
Press to rotate the picture ninety degree.

Panasonic
TV

17

Photo Viewer™ Setup Menu

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

While in the thumbnail mode or the single picture view mode (see page 17)

1   Press to display the Setup Menu screen.

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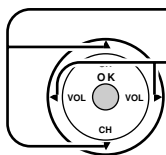
Press to adjust or activate the sub-menu.

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

SELECT — OK
CHANGE
MENU ● ● EXIT

Slide Show

Select the settings of Interval, Sequence and Repeat before starting the slide show.
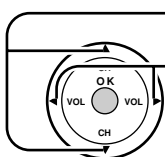
Press to select the sub-menu.

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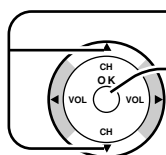
Press to select Start.

Press to start the slide show.
• Press again to stop.
• Press **ASPECT** to change the aspect of the image (see page 15).

Rotate

(While in the single picture view mode only)
Allows you to rotate the image (see also page 17).
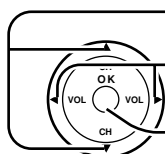
Press to select Rotate.

Press to select Left or Right.
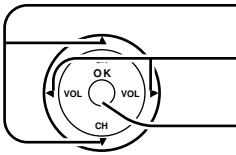
Press to activate the setting.

Zoom
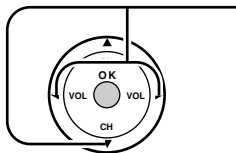
(While in the single picture view mode only)
Lets you select the magnification of the single picture display.

1 ── Press to select Zoom.

── Press to select To Fit, x2 or x4.

── Press to activate the setting.

2 ── Press to move the image in the picture frame.

To cancel Zoom
Press **OK** to view the picture in normal magnification.

Card

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

── Press to select Card.

── Press to select SD or PC.
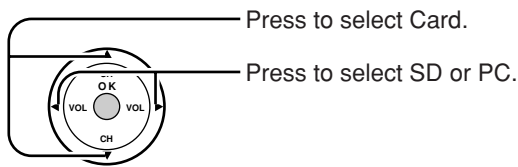
Photo Viewer™ Troubleshooting

Symptom	Cause and remedy
Cannot read the content of the card.	• Not compatible format. Must be formatted with FAT 12 or FAT 16. • The extension is not "JPG". • The folders not under DCF standard.
PC card cannot be ejected.	Push the card all the way in, and eject.
Poor picture quality.	If the main image cannot be read (the file is partially corrupted), the Photo viewer™ will read the thumbnail. Please confirm the format of the image.
Picture takes a long time to display.	There are lots of images or the file size is large.

■ **Error messages**

"Card is not inserted correctly."	Insert a card.
"This type of image is not supported."	The JPEG file is corrupted and cannot be decoded.
"This type of format is not supported."	The card is not formatted with FAT 12 or FAT 16 or if it is not DCF standard.
" ⊘ "	Thumbnail and main picture cannot be shown.
"Photo Viewer cannot support over 3000 JPEG files."	Over 3000 image files.
"Photo Viewer cannot support over 8192 x 8192 pixels."	Resolution over.
"This type of card is not supported."	Incompatible card is inserted.

Menu Operations

1

Press to display MENU screen.

```
MENU
ADJUST    SET UP
      PICTURE
□□ PICTURE ADJUST
✛ POSITION / SIZE
      AUDIO
♪ AUDIO ADJUST
```

2

```
MENU
ADJUST    SET UP
      PICTURE
□□ PICTURE ADJUST
✛ POSITION / SIZE
      AUDIO
♪ AUDIO ADJUST
```

or

```
MENU
ADJUST    SET UP

⊛⊝ LANGUAGE
⊞ PROGRAM CH
🔒 LOCK
CC CLOSED CAPTION
▭ INPUT LABEL
⊹ OTHER ADJUST
```

Remote control keys:

POWER · SAP · ASPECT · TV/VIDEO · LIGHT · MUTE · VCR · DVD · AUX · RCVR · DTV · CBL · DBS · TV

CH · OK · VOL · VOL · CH

MENU · RETURN EXIT · RECALL · PAGE · GUIDE

1 2 3
4 5 6
7 8 9
R-TUNE · 0 · SLEEP/PROG

```
MENU
ADJUST    SET UP
      PICTURE
□□ PICTURE ADJUST
✛ POSITION / SIZE
      AUDIO
♪ AUDIO ADJUST
```

```
MENU
ADJUST    SET UP

⊛⊝ LANGUAGE
⊞ PROGRAM CH
🔒 LOCK
CC CLOSED CAPTION
▭ INPUT LABEL
⊹ OTHER ADJUST
```

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.

```
LANGUAGE
LANGUAGE  ◄ ENGLISH►

◄ ○ ►— CHANGE
   ○ RETURN
```

Press to select the MENU screen (ADJUST or SET UP).

Press to select the sub-menu feature.

Press to display the sub-menu screen.
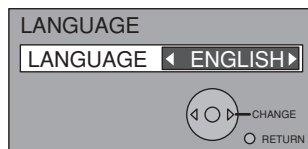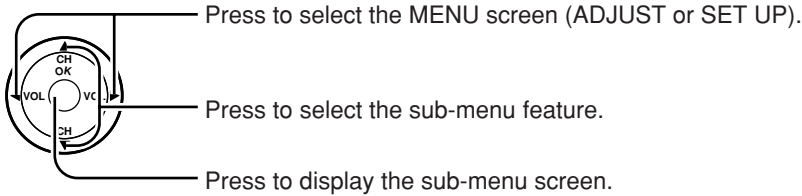
RETURN
EXIT
● To return to the previous screen :

MENU
● To exit the MENU screen: This returns TV to normal viewing.

PICTURE ADJUST PAGE1/2
NORMAL
PIC MODE   STANDARD
BACK LIGHT   + 20
PICTURE   + 20
BRIGHTNESS   0
COLOR   0
TINT   0
SHARPNESS   0
AI PICTURE   OFF   ON

(See page 29)

POSITION/SIZE
NORMAL

NORMALIZE
SIZE
1
○ RETURN

(See page 31)

AUDIO ADJUST   PAGE1/2
NORMAL
MODE   DYNAMIC
BASS   + 4
TREBLE   0
BALANCE   0
SURROUND   OFF   ON
EQUALIZER   OFF   ON
STEREO   SAP   MONO
HDMI IN   AUTO

(See page 32)

LANGUAGE
LANGUAGE ◄ ENGLISH►

Select the menu
language.

ENGLISH ◄► FRANÇAIS
ESPAÑOL

CLOSED CAPTION
CC ON MUTE   NO
CC MODE   OFF

(See page 27)

PROGRAM CHANNELS
MODE   TV CABLE
AUTO PROGRAM
MANUAL PROGRAM

(See pages 22, 23)

INPUT LABEL
COMPONENT1   COMPONENT1
COMPONENT2   COMPONENT2
VIDEO1   VIDEO1
VIDEO2   VIDEO2
HDMI   HDMI

(See page 28)

LOCK
BLOCK PROGRAMS:
U. S. MOVIES
STATUS   OFF ON
⇨ CHANGE SETTING
ENTER CODE FIRST
_ _ _ _

(See pages 24-26)

OTHER ADJUST   PAGE1/2
VIDEO NR
OFF ON
MPEG NR
OFF ON
3D Y/C
OFF ON
COLOR MATRIX
SD HD

(See page 28)

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.

MENU

ADJUST	SET UP

- LANGUAGE
- PROGRAM CH
- LOCK
- CLOSED CAPTION
- INPUT LABEL
- OTHER ADJUST
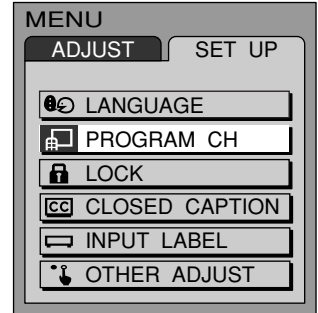
3

Press to select MODE.

Press to select TV or CABLE.

PROGRAM CHANNELS

MODE	TV CABLE

AUTO PROGRAM

MANUAL PROGRAM
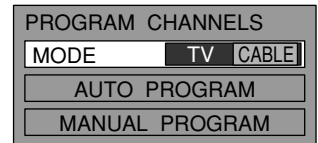
Automatic channel programming

Automatically scans and stores all the TV channels.

4

Press to select AUTO PROGRAM.

Press to display the AUTO PROGRAM screen.

AUTO PROGRAM

Activate
"AUTO PROGRAM?"

YES   NO
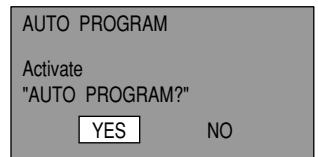
5

Press to select YES.

Press to start AUTO PROGRAM.
Channels will automatically advance until all channels have been scanned. Channel numbers with video signal received will be stored in the Channel Memory.

AUTO PROGRAM

In "AUTO PROGRAM"

CHANNEL	59

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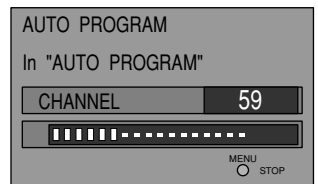
Notes:
- When any button is pressed during AUTO PROGRAM, the TV will return to normal viewing. (Channels searched up to the point are added.)
- After AUTO PROGRAM finishes, the lowest channel number added will be displayed.
- When there are no receivable channels, channel 69 (for TV) or channel 125 (for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

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Manual channel programming

Add or delete a channel manually.
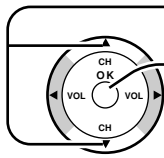
4 Press to select MANUAL PROGRAM.

Press to display the MANUAL PROGRAM screen.

```
PROGRAM  CHANNELS
MODE          TV   CABLE
    AUTO  PROGRAM
    MANUAL  PROGRAM
```

```
MANUAL  PROGRAM
ENTER  CHANNEL
       121
```
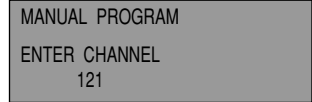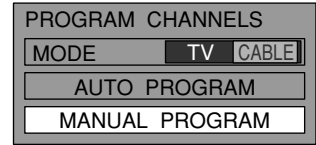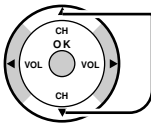
5 Press to select the channel.
• You can also use the numbered buttons.
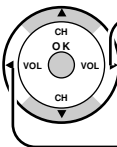
6 Press to add the channel to the Channel Memory (the channel number turns blue).

Press to delete the channel from the Channel Memory (the channel number turns yellow).
• Repeat steps 5 and 6 for other channels.

LOCK

In the United States, the V-CHIP consists of two rating systems, which are MPAA (MOTION PICTURE) and TV PARENTAL GUIDELINES. Its function is to block programs by the rating data in the XDS data packets sent from broadcasting stations. The user can select which rating programs should be blocked by the LOCK MENU options.
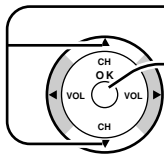
1　　　　　　　　　　　　Press to select LOCK.

Press to display the LOCK screen.

```
MENU
┌─────────────┬──────────┐
│ ADJUST      │  SET UP  │
└─────────────┴──────────┘

 🔠  LANGUAGE
 ⌂  PROGRAM  CH
 🔒  LOCK
 CC  CLOSED  CAPTION
 ⬜  INPUT  LABEL
 •🕯  OTHER  ADJUST
```

2　　　　① ② ③
　　　　　④ ⑤ ⑥
　　　　　⑦ ⑧ ⑨
　　　　　　 ⓪
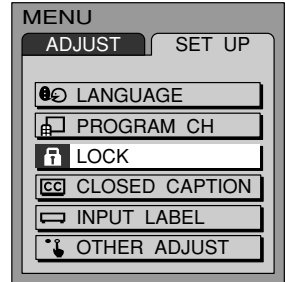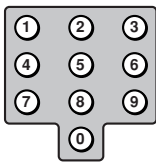
Input 4-digit code.
- To clear the numbers while entering the code, press Up ⬆ or Down ⬇ .
- You will need the code to enter the LOCK menu.
- After entering your password for the first time, ENTER CODE FIRST will change to CHANGE CODE.

```
LOCK
BLOCK PROGRAMS:
         U. S.  MOVIES
STATUS           OFF ON
↳ CHANGE  SETTING
ENTER  CODE  FIRST
              * _ _ _
```
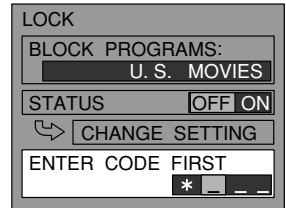
Note:
Use a code that is easy to remember and record it in a safe place.
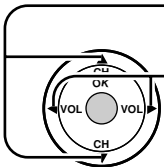
3　　　　　　　　　　　　Press to select BLOCK PROGRAMS.

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

```
LOCK
BLOCK  PROGRAMS:
  ◄U.S. TV PROGRAMS►
STATUS         OFF ON
↳ CHANGE  SETTING
CHANGE CODE
              _ _ _ _
```
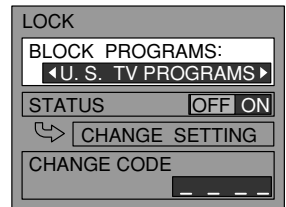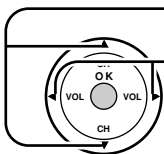
4　　　　　　　　　　　　Press to select STATUS.

Press to select ON or OFF.

```
LOCK
BLOCK  PROGRAMS:
   U. S.  TV PROGRAMS
STATUS         OFF ON
↳ CHANGE  SETTING
CHANGE CODE
              _ _ _ _
```
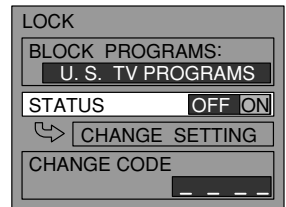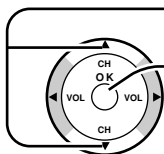
5　　　　　　　　　　　　Press to select CHANGE SETTING.

Press to enter the next menu.

```
LOCK
BLOCK  PROGRAMS:
   U. S.  TV PROGRAMS
STATUS         OFF ON
↳ CHANGE  SETTING
CHANGE CODE
              _ _ _ _
```

24
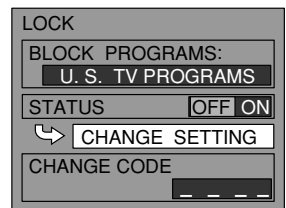
6
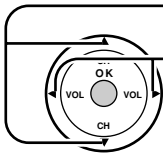
Press to select VIEW NR PROGRAMS?

Press to select NO or YES.
NO : Cannot view programs with NR signals.
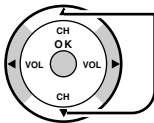YES : Can view programs with NR signals.
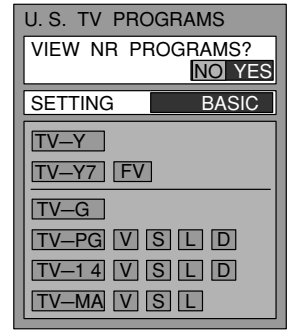
```
U. S.  TV  PROGRAMS
VIEW  NR  PROGRAMS?
                    NO  YES
SETTING          BASIC

TV–Y
TV–Y7   FV

TV–G
TV–PG   V   S   L   D
TV–1 4   V   S   L   D
TV–MA   V   S   L
```
Title   Option

7 **U.S. TV PROGRAMS only**
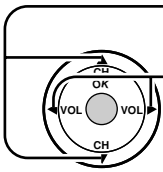
Press to select SETTING.

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

8

Press to select the rating.
• When a title field is selected, all ratings below this
  rating are selected.
  When options within an option field are selected,
  ratings below this rating within the same field are
  selected.

9
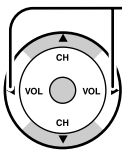
Press to lock or unlock the rating.
Lock : Red
Unlock : Green

U.S. MOVIES RATINGS

G : General audience
PG : Parental guidance suggested
PG-13 : Parental guidance needed
  under 13 years old

R : Restricted
NC-17 : No one under 17 is admitted
X : Pornography

U.S. TV PROGRAMS RATINGS

1. Ratings for children: Divided into ranks as follows.

TV-Y					
TV-Y7	FV	TV-Y ⟶	TV-Y7 ⟶	TV-Y7-FV
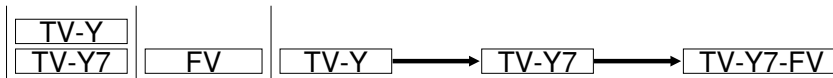
2. Ratings for teenagers: Created out of these major categories to form various combinations. These combinations are described in the below diagram. Ratings for all ages are on top and ratings for adults are on the bottom.

TV-G				
TV-PG	V	S	L	D
TV-14	V	S	L	D
TV-MA	V	S	L	
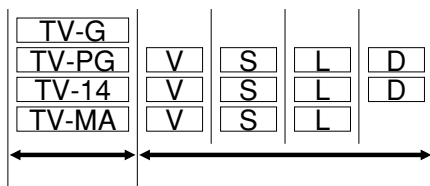
CANADIAN ENGLISH RATINGS

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

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.

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.
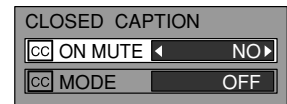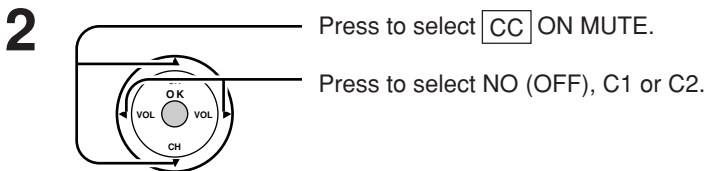
Notes:
• This feature is available only with the 480i input signal and with the programs including the closed caption.
• The closed caption is not displayed when using HDMI connection (see page 11) or when you set the aspect to "ZOOM" (see page 15).

1

Press to select CLOSED CAPTION.

Press to display the CLOSED CAPTION screen.

```
MENU
  ADJUST      SET UP
  🌐 LANGUAGE
  🔲 PROGRAM  CH
  🔒 LOCK
  CC CLOSED  CAPTION
  🔲 INPUT  LABEL
  🖐 OTHER  ADJUST
```
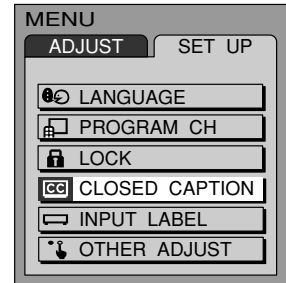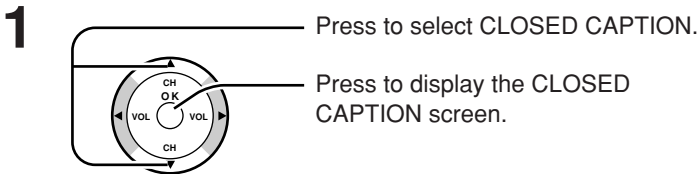
CC ON MUTE

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

2

Press to select CC ON MUTE.

Press to select NO (OFF), C1 or C2.

```
CLOSED  CAPTION
CC ON MUTE  ◄        NO ►
CC MODE              OFF
```

Notes:
• To activate this feature, set CC MODE to OFF .

CC MODE

Displays the On-Screen Closed Caption.

2

Press to select CC MODE.

Press to select OFF, C1 or C2.

```
CLOSED  CAPTION
CC ON MUTE            NO
CC MODE  ◄          OFF ►
```
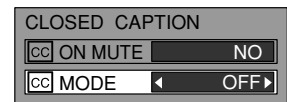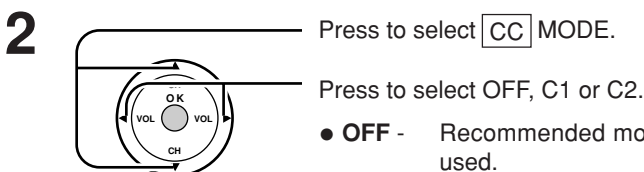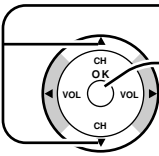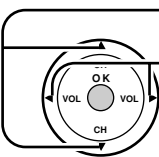
● **OFF** - Recommended mode when Closed Caption is not being used.
● **C1** - For video related information that can be displayed (up to 4 lines of script strategically placed on the television screen so that it does not obstruct relevant parts of the picture).
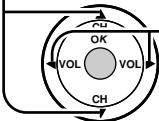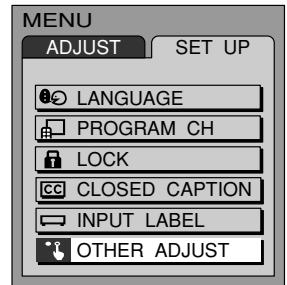● **C2** - Another mode used for video related information.
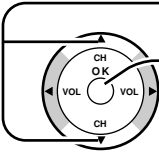
INPUT LABEL

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

1 Press to select INPUT LABEL.

Press to display the INPUT LABEL screen.

MENU
| ADJUST | SET UP |

- 🌐 LANGUAGE
- ⊡ PROGRAM CH
- 🔒 LOCK
- cc CLOSED CAPTION
- ⊂⊃ INPUT LABEL
- 🖐 OTHER ADJUST

2 Press to select the video input.

Press to select the INPUT LABEL. (COMPONENT1 / COMPONENT2 / VIDEO1 / VIDEO2 / HDMI, VCR, LD, GAME, DVD, DTV, [BLANK] and SKIP∗)
∗ Select to skip unused video input when pressing TV/VIDEO button.

INPUT LABEL
COMPONENT1	COMPONENT1
COMPONENT2	COMPONENT2
VIDEO1	VIDEO1
VIDEO2	VIDEO2
HDMI	HDMI
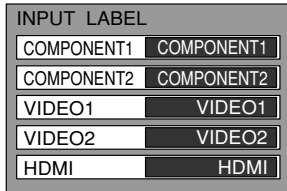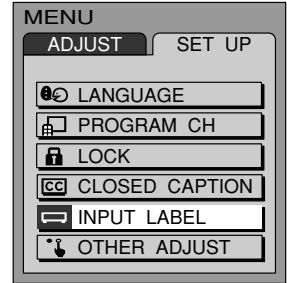
OTHER ADJUST

1 Press to select OTHER ADJUST.

Press to display the OTHER ADJUST screen.

MENU
| ADJUST | SET UP |

- 🌐 LANGUAGE
- ⊡ PROGRAM CH
- 🔒 LOCK
- cc CLOSED CAPTION
- ⊂⊃ INPUT LABEL
- 🖐 OTHER ADJUST

2 Press to select the item.

Press to select the setting.

OTHER ADJUST   PAGE1/2
VIDEO NR
OFF ON
MPEG NR
OFF ON
3D Y/C
OFF ON
COLOR MATRIX
SD HD
▼

VIDEO NR
Reduce video noise in the picture.
OFF ←——→ ON

MPEG NR
Noise unique to DVD, STB etc will be reduced.

OFF ←——→ ON

3D Y/C
Minimizes noise and cross color in the picture. Not available for COMPONENT VIDEO INPUT and HDMI input.
OFF ←——→ ON

COLOR MATRIX
Displays input signals (480p signals) in a natural color. Automatically adjusts color parameters for HD (high definition) and SD (standard definition).
SD ←——→ HD

OTHER ADJUST   PAGE2/2
▲
POWER SAVE
STANDARD

POWER SAVE
The POWER SAVE mode is suitable for watching television at night. Power consumption will be reduced.
STANDARD ←——→ SAVING

28
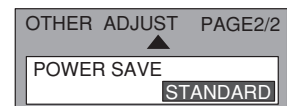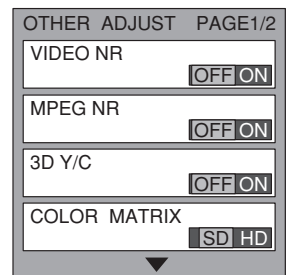
PICTURE ADJUST

1 Press to select PICTURE ADJUST.

Press to display the PICTURE ADJUST screen.

```
MENU
ADJUST    SET  UP
      PICTURE
▓ PICTURE  ADJUST
✛ POSITION / SIZE
      AUDIO
♪ AUDIO  ADJUST
```
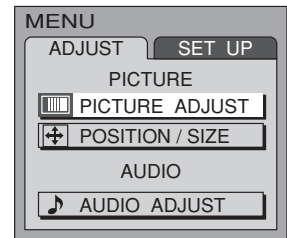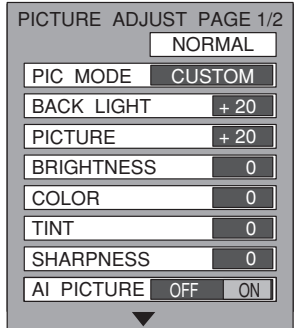
2 Press to select the sub-menu.

Adjust the setting watching the picture behind the menu.

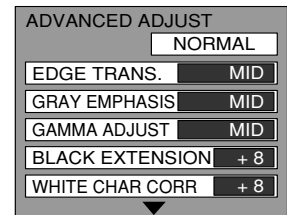Press to activate the setting if necessary.

```
PICTURE  ADJUST  PAGE 1/2
              NORMAL
PIC  MODE    CUSTOM
BACK  LIGHT      + 20
PICTURE          + 20
BRIGHTNESS        0
COLOR             0
TINT              0
SHARPNESS         0
AI  PICTURE  OFF   ON
            ▼
```

3 **ADVANCED ADJUST**

Press to select ADVANCED ADJUST.

Press to select ON.
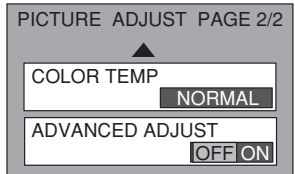
```
PICTURE  ADJUST  PAGE 2/2
            ▲
COLOR TEMP
              NORMAL
ADVANCED ADJUST
              OFF ON
```

4

Press to display the sub-menu.

```
ADVANCED ADJUST
              NORMAL
EDGE TRANS.      MID
GRAY EMPHASIS    MID
GAMMA ADJUST     MID
BLACK EXTENSION  + 8
WHITE CHAR CORR  + 8
            ▼
```

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

Notes:
• "NORMAL" means the PIC MODE is in the factory default setting. "NORMAL" changes to "NORMALIZE" when you change the setting of BACK LIGHT, PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS, AI PICTURE, COLOR TEMP or ADVANCED ADJUST.
• You can normalize each PIC MODE separately.

PIC MODE

MODE	Function
STANDARD	Displays a standard image.
CINEMA	Ideal for watching movies in a dark room.
VIVID	Displays a clear image with high contrast.
CUSTOM	You can customize the picture settings to suit your preference (see page 30, ADVANCED ADJUST).

The CUSTOM setting is stored for TV, VIDEO1, VIDEO2, COMPONENT1, COMPONENT2, HDMI and Photo Viewer™ mode (see page 16) individually.

Menu Operations

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

You can change the level of each Item (BACK LIGHT, PICTURE, BRIGHTNESS, COLOR, TINT, SHARPNESS, AI PICTURE and COLOR TEMP) for each MENU (STANDARD, CINEMA, VIVID and CUSTOM) according to your personal preference.

Sub-menu	Function
BACK LIGHT	Luminance of the back light is adjusted.
PICTURE	Selects proper brightness 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.
SHARPNESS	Adjusts the degree of sharpness.
AI PICTURE	Displays black and white more accurately when turned ON.
COLOR TEMP (Color temperature)	Increases or decreases WARM (red) and COOL (blue) colors to suit personal preference.

ADVANCED ADJUST
(Only when you selected CUSTOM in PIC MODE)

Item	Function
EDGE TRANS.	Improves edges in the background to reduce overshooting and improve the sense of depth.
GRAY EMPHASIS	Emphasizes the sharpness in density of many color differences.
GAMMA ADJUST	Increases the brightness of the center ranges to improve detail and contrast in dark scenes.
BLACK EXTENTION	Contrast level will be improved.
WHITE CHAR CORR	It makes white characters brighter.

POSITION/SIZE
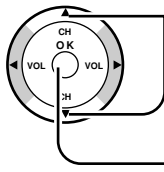
Press to select POSITION/SIZE.

Press to display POSITION/SIZE screen.

MENU
ADJUST | SET UP
PICTURE
▥ PICTURE ADJUST
✛ POSITION / SIZE
AUDIO
♪ AUDIO ADJUST

POSITION/SIZE
NORMAL
NORMALIZE
SIZE
1
○ RETURN
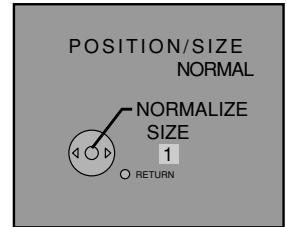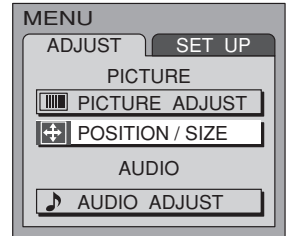
For "ZOOM" mode (see page 15)
• **POSITION**
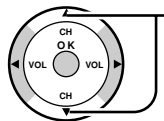
Press to move the picture up or down.
• Press **OK** to return to the original position.

ZOOM
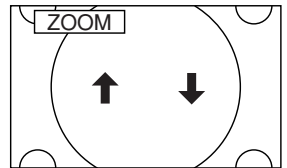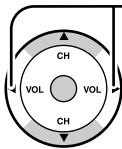
• **SIZE**

Press to shrink the picture vertically [by 15 steps: 15 (original setting) down to 1].
• Press **OK** to return to the original setting.

ZOOM →
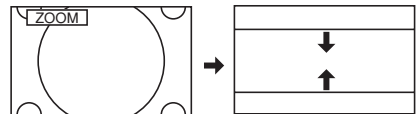
For "NORMAL" and "JUST" mode (see page 15)
• **SIZE**
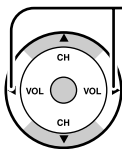
Press to select the size.
Size 1: reduces black bar.
Size 2: widens black bar.
• Press **OK** to return to the original setting.

Size1

Size2

31
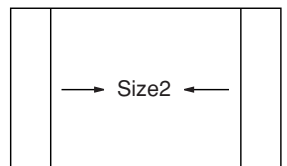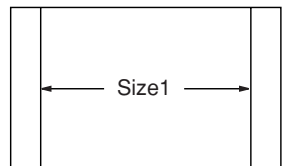
AUDIO ADJUST

1
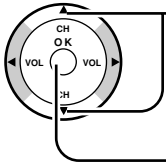
Press to select AUDIO ADJUST.

Press to display the AUDIO ADJUST screen.

```
MENU
 ADJUST    SET UP
      PICTURE
 |▥| PICTURE  ADJUST
 |✛| POSITION / SIZE
      AUDIO
 |♪| AUDIO  ADJUST
```

2
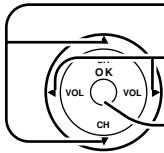
Press to select the sub-menu.

Select the setting listening the sound.

Press to activate the setting if necessary.

```
AUDIO  ADJUST    PAGE1/2
                  NORMAL
 MODE         DYNAMIC
 BASS            +  4
 TREBLE             0
 BALANCE            0
 SURROUND   OFF   ON
 EQUALIZER   OFF   ON
 STEREO   SAP   MONO
 HDMI IN          AUTO
       ▼
```

```
AUDIO  ADJUST    PAGE2/2
       ▲
                 NORMAL
 AUDIO LEVELER      0
```
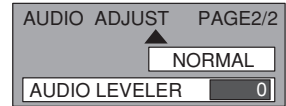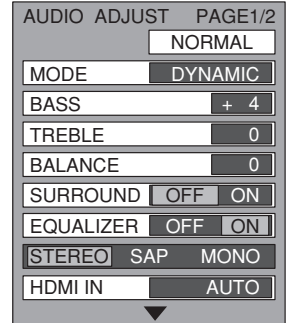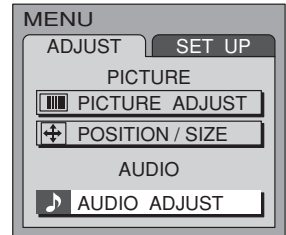
NORMAL / NORMALIZE

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

Notes:
• "NORMAL" means the MODE is in the factory default setting. "NORMAL" changes to "NORMALIZE" when you change the setting of BASS, TREBLE, BALANCE, SURROUND, EQUALIZER or AUDIO LEVELER.
• You can normalize each MODE separately.

MODE

AUTO	Automatically adjusts for a wide Dynamic Range.
STANDARD	Emits the original sound.
DYNAMIC	Gives contrast to sound.

BASS, TREBLE, BALANCE, SURROUND, EQUALIZER

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

BASS	Adjusts low frequencies.
TREBLE	Adjusts high frequencies.
BALANCE	Adjusts left and right volume.
SURROUND	To enjoy a concert hall effect, select ON when stereo is playing.
EQUALIZER	Makes voice sound clear. Normally set to ON.

STEREO / SAP / MONO
• Red display   : With signal
  White display : No signal
  White display (All modes) : MONO
• To change the mode using SAP button (see page 13).

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

HDMI IN

When using HDMI connection (see page 11), this feature will let you switch between Analog Input and Digital Input.

AUTO	Automatically selects Analog / Digital signal.
DIGITAL	Digital Input only.
ANALOG	Analog Input only.

AUDIO LEVELER

You can adjust the volume level for each of the input mode (TV, VIDEO1, VIDEO2, COMPONENT1, COMPONENT2 and HDMI).
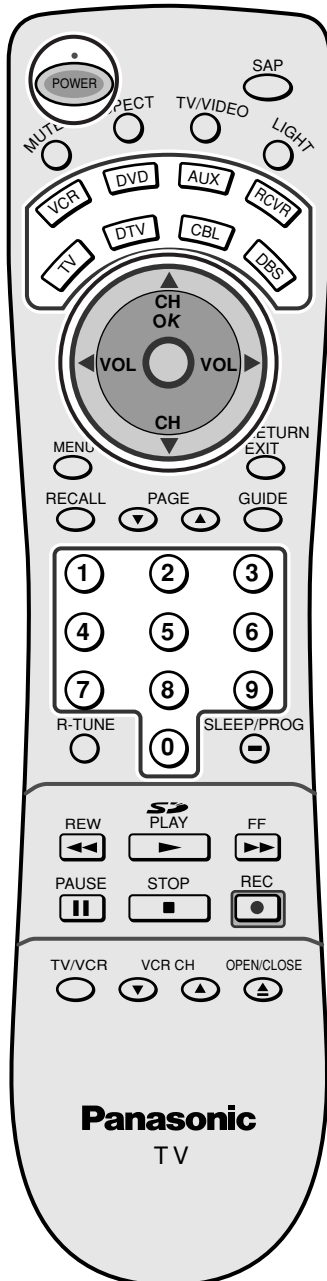
Operating peripheral equipment using the remote control

Programming the remote control code

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

Preparation:
● Connect the plug of the external component to the wall outlet.
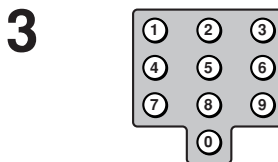● Make sure the component is turned off.

1 POWER + [CH OK VOL VOL CH]

Press and hold **POWER** and **OK** together, **for at least 5 seconds**.
● The mode selection buttons flashes, and then release the **POWER** and **OK**.

2 VCR DVD AUX RCVR DTV CBL TV DBS
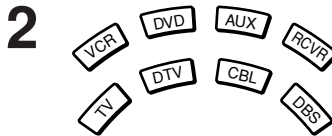
Select the type of the component.
● The selected button light and all others go out.

3 [1 2 3 / 4 5 6 / 7 8 9 / 0]

Enter the 3-digit infrared code (see pages 34-36).
● Factory default setting : Panasonic
● Press **POWER** to test the operation.

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

To find the code not listed in the index

After step 2 above,
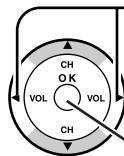
Press to select the code.
• The code starts from the current device.
• Press **POWER** button to test the operation.
• Repeat the steps until the component code is found. It may take many attempts before the correct code is found.
Press to store the code.

Panasonic
T V

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Infrared Code Index

The Universal Remote Control is capable of operating many component brands after entering a code. Some components may not operate because the codes are not available due to limited memory. The Universal Remote Control does not control all features found in each model.

Write the code numbers from tables in this space. This will serve as a reference if you need to program your Remote Control.

VCR	DVD	DVD (CD)	AUX (VCR 2)	AUX (TAPE)

RECEIVER	DTV	CABLE	DBS	

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
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
Optimus	306, 321, 328, 335

Brand	Code
Orion	320, 326
Panasonic	321, 322, 323, 324
J.C.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

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

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

Codes for Personal Video Recorders

Brand	Code
Panasonic Replay	100
Philips Tivo	101
Sony Tivo	102

Codes for Cassette Decks

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

Codes for Receivers

Brand	Code	Brand	Code
Admiral	120	Optimus	103, 127, 130, 131
Aiwa	125, 126	Panasonic	118, 119, 121
Denon	134, 135, 136	Philips	123
Fisher	104	Pioneer	105, 107
Garrard	113	Quasar	118, 119, 121
Harman Kardon	115, 123	RCA	103, 105, 127, 130, 131
Jensen	129	Sansui	103, 111, 139
JVC	132, 133	Sharp	134, 137
Kenwood	100, 108	Sony	122
Magnavox	127	Soundesign	138
Marantz	124	Teac	111, 112, 113
McIntosh	116	Technics	118, 119, 121
Nakamichi	106	Victor	132, 133
Onkyo	109, 114	Yamaha	101, 102

Codes for Cable Box

Brand	Code	Brand	Code
ABC	124	Puser	132
Archer	125, 132	RCA	115
Cableview	105, 132	Realistic	132
Citizen	105, 122	Regal	112, 118, 140, 141, 142, 145
Curtis	112, 113		
Diamond	124, 125, 132	Regency	134
Eagle	129	Rembrandt	105, 132, 137
Eastern	134	Samsung	105
GC Brand	105, 132	Scientific Atlanta	111, 112, 113
Gemini	122	Slmark	101, 105
General Instrument/ Jerrold	111, 119, 120, 121, 122, 123, 124, 125, 126, 127	Sprucer	105, 110
		Stargate	105, 132
		Tel eview	101, 105
Hamlin	112, 118, 140, 141, 142, 145	Texscan	144
		Tocom	135
Hitachi	103, 124	Toshiba	104
Macom	103, 104, 105	Unika	125, 132
Magnavox	133	Universal	122, 132
Memorex	130	Videoway	106
Movietime	105, 132	Viewstar	129, 130
Oak	102, 137, 139	Zenith	100, 117
Panasonic	109, 110, 114	Zenith /Drae Satellite	100
Philips	106, 107, 128, 129, 130		
Pioneer	101, 116		
Pulsar	105, 132		

Codes for DBS
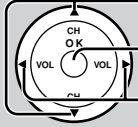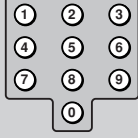
Brand	Code	Brand	Code
Dish Network	105, 115, 116	Magnavox	101, 102
Echo Star (Echostar)	105	Panasonic	104
		Philips	101, 102
Express VU	105, 115	Primestar	108
G.E.	106	Proscan	106, 109, 110, 113
G.I. (General Instrument)	108	RCA	106, 109, 110, 113
		Sony	107
Gradiente	114	Star Choice	103, 108
Hitachi	103, 111, 112	Toshiba	100
HNS (Hughes)	103	Uniden	101, 102
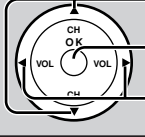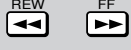
Mode Operational Key Chart

This chart defines which keys 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	VCR MODE
POWER	DTV POWER	CABLE POWER	DBS POWER	VCR POWER
SAP	DTV SAP	–	–	–
MUTE	TV MUTE	CABLE MUTE	TV MUTE	TV MUTE
ASPECT	DTV ASPECT	–	DBS ASPECT	–
TV/VIDEO	TV INPUT SW	TV INPUT SW	TV INPUT SW	TV INPUT SW
LIGHT	REMOTE BUTTONS	REMOTE BUTTONS	REMOTE BUTTONS	REMOTE BUTTONS
CH OK VOL	–	CABLE CH UP/DOWN	DBS NAVIGATION UP/DOWN	VCR CH UP/DOWN
	DTV ACTION	CABLE ENTER	DBS ACTION	TV ACTION
	DTV NAVIGATION LEFT/ RIGHT	CABLE VOL –/+	DBS NAVIGATION LEFT/RIGHT	TV VOLUME –/+
MENU	STB MENU	–	STB MENU	–
RECALL	STB PROGRAM INFO.	TV DISPLAY	STB PROG. INFO	ONSCREEN VCR DISPLAY
RETURN EXIT	DTV EXIT (EPG)ELECTRONIC PROGRAM GUIDE	–	STB EXIT	–
PAGE	STB PAGE DOWN/ UP	–	STB PAGE DOWN/UP	–
GUIDE	STB GUIDE (EPG)ELECTRONIC PROGRAM GUIDE	–	DBS PROGRAM GUIDE	–
1 2 3 4 5 6 7 8 9 0	Select STB Channel	Select CABLE Channel	Select DBS Channel	Select VCR Channel
R-TUNE	PREVIOUS DTV CH	CABLE PREVIOUS	STB PREVIOUS	–
SLEEP/PROG	DTV PROGRAM/DASH	–	STB PROGRAM/DASH	–
REW FF	–	–	–	VCR REW/FF
SD PLAY	–	–	–	VCR PLAY
PAUSE	–	–	–	VCR PAUSE
STOP	–	–	–	VCR STOP
REC	–	VCR RECORD	STB RECORD	VCR RECORD
TV/VCR	–	–	STB/DTV/SAT SW	TV/VCR SW
VCR CH	–	CABLE CH DOWN/UP	STB CH DOWN/UP	VCR CH DOWN/UP
OPEN/CLOSE	–	–	STB SEARCH	–

| KEY NAME | DVD MODE | | AUX MODE | | | RCVR MODE |
	(DVD)	(CD)	(VCR2)	(PVR)	(TAPE)	
POWER	DVD POWER	CD POWER	VCR POWER	PVR POWER	TAPE POWER	RCVR POWER
SAP	–	–	–	–	–	–
MUTE	TV MUTE	RCVR MUTE	TV MUTE	TV MUTE	RCVR MUTE	RCVR MUTE
ASPECT	–	–	–	–	–	–
TV/VIDEO	TV INPUT SW	TV INPUT SW	TV INPUT SW	TV INPUT SW	TV INPUT SW	RCVR INPUT SW
LIGHT	REMOTE BUTTONS	REMOTE BUTTONS	REMOTE BUTTONS	REMOTE BUTTONS	REMOTE BUTTONS	REMOTE BUTTONS
(navigation)	NAVIGATION UP/DOWN	NEXT/PREVIOUS TRACK	VCR CH UP/DOWN	NAVIGATION UP/DOWN	–	TUNER –/+
	DVD SELECT	–	TV ACTION	–	–	–
	NAVIGATION LEFT/RIGHT	TV/RCVR VOLUME DOWN/UP	TV VOLUME –/+	NAVIGATION LEFT/RIGHT	RCVR VOLUME –/+	RCVR VOLUME –/+
MENU	DVD MENU	–	–	PVR MENU	–	–
RECALL	DVD DISPLAY	TIME FORMAT	ON SCREEN VCR DISPLAY	–	–	–
RETURN EXIT	–	–	–	EXIT PVR MENU	–	–
PAGE	DVD SKIP –/+	CD SKIP –/+	–	–	–	–
GUIDE	DVD TITLE	–	–	–	–	–
(number pad)	Select DVD Number	Select CD Track Number	Select VCR Channel	Select PVR Channel	–	1.... AV1 2.... AV2 3.... AV3 4.... AV4 5.... CD 6.... TUNER 7.... PHONO 8.... TAPE 9.... AUX
R-TUNE	–	–	–	PREVIOUS PVR CH/ RELAY ZONES	DECK A/B	–
SLEEP/PROG	–	–	–	PVR RETURN TO LIVE	–	–
REW FF	SKIP SEARCH REW/FF	SEARCH REW/FF	VCR REW/FF	–	TAPE REW/FF	SURROUND– /+
PLAY	DVD PLAY	CD PLAY	VCR PLAY	PVR PLAY	TAPE PLAY	–
PAUSE	DVD PAUSE	CD PAUSE	VCR PAUSE	PVR PAUSE	TAPE PAUSE	–
STOP	DVD STOP	CD STOP	VCR STOP	–	TAPE STOP	–
REC	–	–	VCR RECORD	PVR RECORD	TAPE RECORD	–
TV/VCR	–	–	TV/VCR SW	–	–	–
VCR CH	DVD SLOW –/+	RANDOM/REPLAY	VCR CH DOWN/UP	PVR CH DOWN/UP	–	CENTER –/+
OPEN/CLOSE	DVD OPEN/CLOSE	CD OPEN/CLOSE	–	PVR QUICK SKIP	TAPE OPEN/CLOSE	–

Manuel 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 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 de las pilas del mando a distancia

Se necesitan dos pilas AA.

1. Abra la cubierta de las pilas.

2. Instale las pilas. Tenga en cuenta las polaridades (+ y -) al instalar las pilas.

3. Vuelva a colocar la cubierta.

Dos pilas tamaño AA
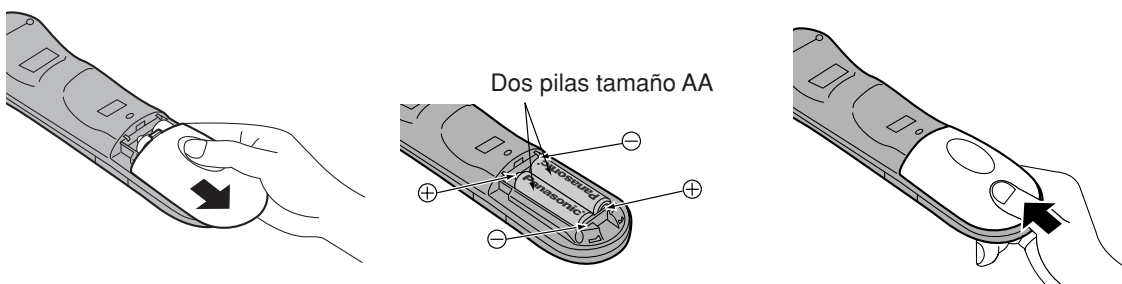
⚠ Precauciones relacionadas con la utilización de las pilas

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

1. Utilice siempre pilas nuevas cuando reemplace las viejas.
2. No intente cargar, cortocircuitar, desarmar, calentar o quemar las pilas usadas.
3. El cambio de las pilas resulta necesario cuando el mando a distancia funciona esporádicamente o no puede controlar esta unidad.
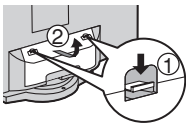
Conexión

Nota:
Otras conexiones (consulte las páginas 9-11).

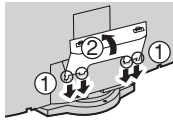## Extracción e instalación de la tapa del cable
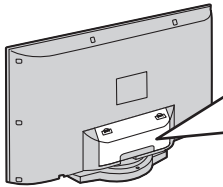
Extracción
1. Presione en los ganchos hacia abajo y tire suavemente de la tapa hacia usted para soltar las garras (en 4 puntos).
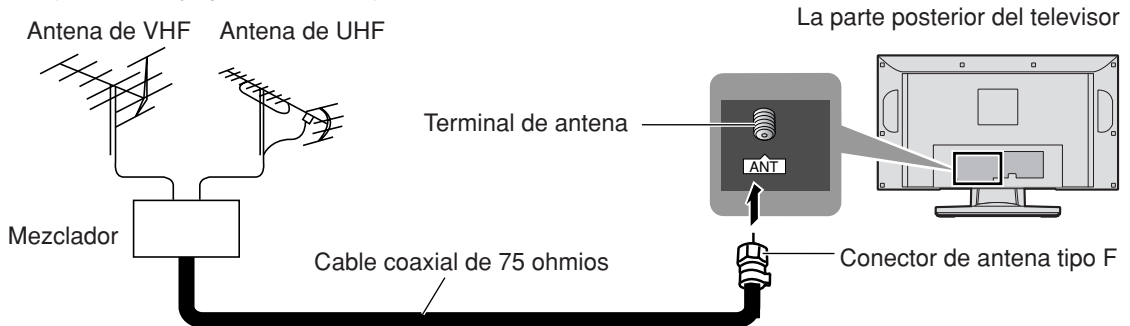2. Tire de la tapa lentamente hacia abajo.

Instalación
1. Inserte las garras (en 4 puntos) en el extremo de la parte superior.
2. Empuje la cubierta hasta que los ganchos hagan un ruido seco.

Nota:
Para evitar que aparezcan interferencias en la pantalla, separe el cable de RF y el cable de alimentación.

Conexión de antena

Para recibir correctamente los canales de VHF / UHF se requiere una antena externa. Para obtener la mejor recepción se recomienda utilizar una antena para exteriores. El modo de antena debe ajustarse a TV (consulte la página 48, MODO).

La parte posterior del televisor

Antena de VHF   Antena de UHF

Terminal de antena

ANT

Mezclador

Cable coaxial de 75 ohmios

Conector de antena tipo F

■ Conexión de cable / antena

Cable entrante de 75 ohmios procedente de la antena del hogar / compañía de televisión por cable

Conector de antena tipo F

Terminal de antena en la parte posterior del televisor

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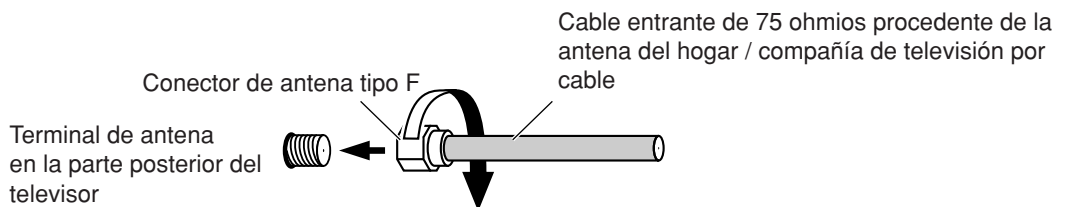
Conexión del receptor de TV por cable

- Para recibir los canales de televisión por cable (01 - 125) conecte el cable suministrado por su compañía de televisión por cable. El modo de antena debe ajustarse a CABLE (consulte la página 48, MODO).
- Ciertos sistemas de televisión por cable neutralizan algunos canales para reducir interferencias o tienen canales especiales (codificados). Para recibir correctamente estos canales se necesita un sintonizador de conversión de televisión por cable. Póngase en contacto con su compañía de televisión por cable para conocer los requerimientos de compatibilidad.
- Ponga el canal del televisor en CH3 o CH4 cuando utilice esta conexión.

Receptor de TV por cable

La parte posterior del televisor
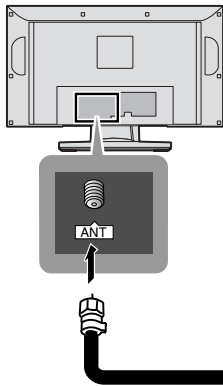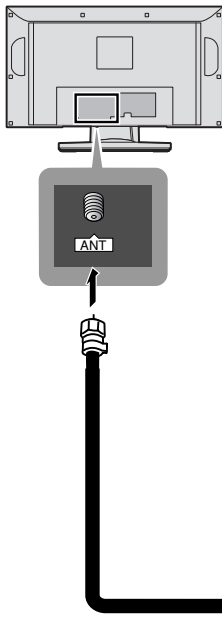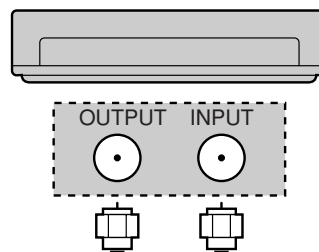
Receptor de TV por cable

OUTPUT INPUT
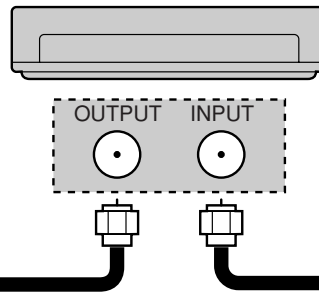
Cable entrante de 75 ohmios procedente compañía de televisión por cable
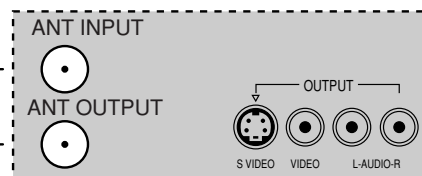
Receptor de TV por cable y Videograbadora
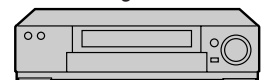
La parte posterior del televisor

Receptor de TV por cable

OUTPUT INPUT

Cable entrante de 75 ohmios procedente compañía de televisión por cable

ANT INPUT

ANT OUTPUT

OUTPUT

S VIDEO VIDEO L-AUDIO-R

Videograbadora

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Controles básicos

Control remoto iluminado

Botón de la alimentación
Púlselo para encender o apagar el televisor
(consulte la página 44).
Nota:
Esto no funciona cuando la alimentación principal
está desconectada (apagado).

Botón MUTE
Púlselo para silenciar el sonido.
Púlselo de nuevo para cancelar el silenciamiento.
El silenciamiento se cancela cuando se desconecta
la alimentación o se cambia en nivel del sonido.

Botones de selección de modo
(consulte la página 33)

Botón MENU
(consulte la página 46)

Botón RECALL
Púlselo para visualizar el número del
canal, el temporizador de cancelado y
otras opciones.

Botón R-TUNE
Púlselo para cambiar a un canal visto previamente o para
cambiar entre el modo del televisor y otro modo de entrada.

Botón SD
Púlselo para acceder Photo Viewer™ (consulte la
página 45)

Funcionamiento de otro dispositivo
(consulte las páginas 37, 38)

POWER   SAP   ASPECT   TV/VIDEO   LIGHT
MUTE

VCR   DVD   AUX   RCVR
DTV   CBL
TV   DBS

CH
OK
VOL   VOL
CH

MENU   RETURN EXIT
RECALL   PAGE   GUIDE

1   2   3
4   5   6
7   8   9
R-TUNE   0   SLEEP/PROG

REW   PLAY   FF
PAUSE   STOP   REC
TV/VCR   VCR CH   OPEN/CLOSE

Panasonic
T V

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Botón ASPECT

→ JUSTIFICADO → ACERCAMIENTO → COMPLETO → NORMAL ⌐
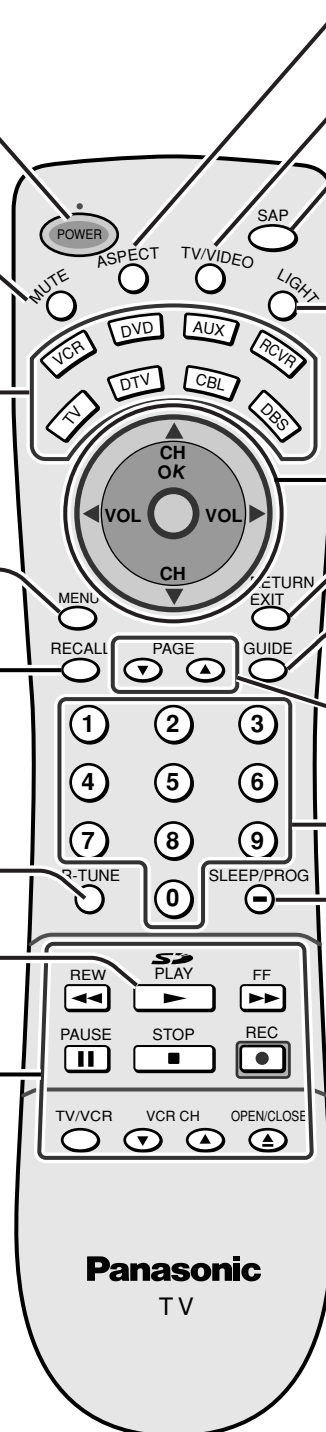
Botón TV/VIDEO
Púlselo para cambiar el modo de entrada.

→ TV → Componente1 → Componente2 ⌐
⌐ HDMI ← Video2 ← Video1 ←
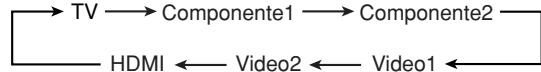
Botón SAP
Púlselo para seleccionar el modo de audio.
También puede cambiar el modo en la pantalla
MENU (consulte la página 46).

→ ESTEREO → SPA → MONO ⌐
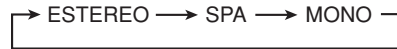
Botón LIGHT
Enciende los botones del
control remoto. El botón
seleccionado parpadea cuando
está encendida esta luz.

Canal superior
Mueve el cursor hacia arriba durante el modo del menú.

OK
Selecciona el menú y
la entrada de submenú.

Reduce el volumen
Mueve el cursor
hacia la izquierda
durante el
modo del menú.

CH
OK

VOL VOL

CH

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

Botón RETURN
Return to previous MENU (modo de TV).
Botón EXIT
EXIT from menu (modo de DTV, STB o PVR).
Botón GUIDE (modo de DBS)

Canal inferior
Mueve el cursor hacia abajo durante el modo
del menú.

Botón PAGE
Subida / bajada de página (modo de DBS).
Salto + / – (modo de DVD y CD).

Botones numerados

Botón SLEEP (modo de TV)
Ponga el tiempo tras el cual el televisor se pondrá en el modo de espera.
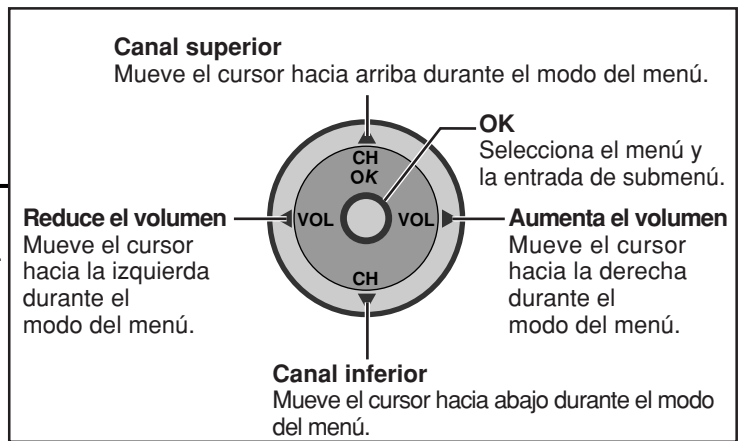
⌐→ 0 → 30 → 60 → 90 ⌐

• 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
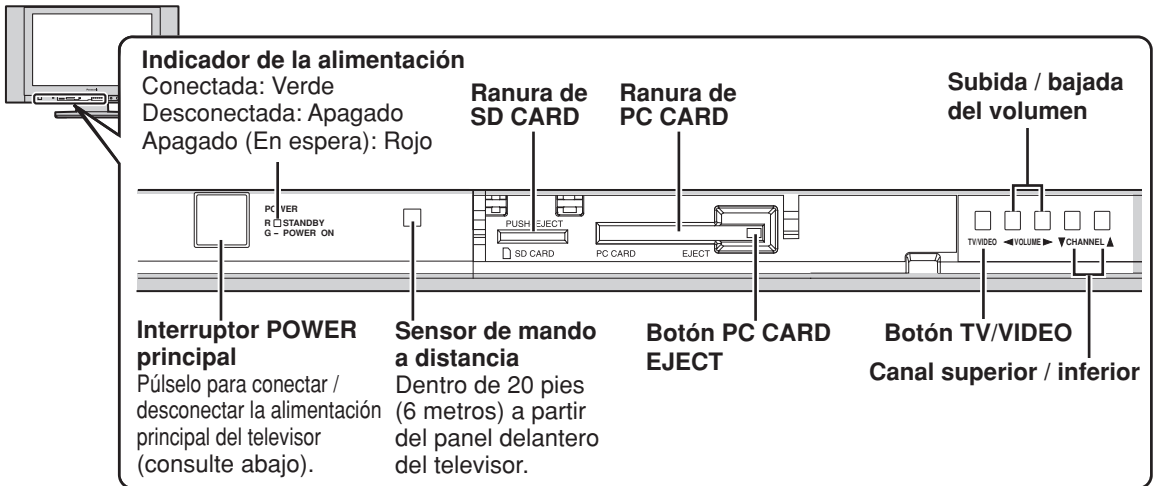 alimentación.
Botón PROG – (modo de DBS o DTV)
Cuando se sintonicen canales digitales, presione el botón para
introducir el número menor en un número de canal complejo.
• Para introducir el número del canal
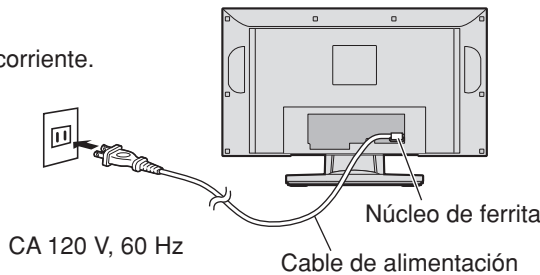 Ej.: CH 15-1: [1]→ [5]→ [-]→ [1]→ [OK]

43

Aparato principal

Indicador de la alimentación
Conectada: Verde
Desconectada: Apagado
Apagado (En espera): Rojo

Ranura de SD CARD

Ranura de PC CARD

Subida / bajada del volumen

POWER
R ☐ STANDBY
G – POWER ON

PUSH EJECT

☐ SD CARD   PC CARD   EJECT

TV/VIDEO ◄ VOLUME ► ▼ CHANNEL ▲

Interruptor POWER principal
Púlselo para conectar / desconectar la alimentación principal del televisor (consulte abajo).

Sensor de mando a distancia
Dentro de 20 pies (6 metros) a partir del panel delantero del televisor.

Botón PC CARD EJECT

Botón TV/VIDEO

Canal superior / inferior

Conexión / desconexión de la alimentación

Preparación
Conecte el enchufe al tomacorriente.

Núcleo de ferrita

CA 120 V, 60 Hz

Cable de alimentación

Notas:
• El televisor consumirá algo de corriente siempre que el enchufe del cable de alimentación esté introducido en la toma de corriente.
• Por motivos de seguridad, no quite ni deslice el núcleo de ferrita.

Interruptor POWER principal

Sensor de mando a distancia

Indicador de la alimentación

En el aparato principal

POWER
R ☐ STANDBY
G – POWER ON

Púlselo para conectar / desconectar la alimentación principal del televisor.
• Indicador de la alimentación
  Conectada: Verde
  Desconectada: Apagado

En el mando a distancia

POWER

Púlselo 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:
• La pantalla de abajo se visualiza durante unos momentos cuando se enciende el televisor.

ACERCAMIENTO   Canal   6
                      ESTEREO
                         SPA
                        MONO
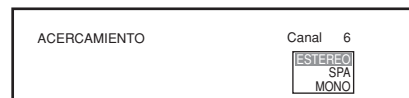
Nota:
• Seleccione el idioma de menú antes de utilizar el televisor (consulte la página 47, Idioma).

SAP
POWER
PECT   TV/VIDEO   LIGHT
MUTE
VCR   DVD   AUX   RCVR
DTV   CBL   DBS
TV
CH

44

Photo Viewer™

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

Mode de imagen miniatura

La pantalla de imagen miniatura es la pantalla de entrada inicial desde el menú principal.
• Cuando se introduzcan las tarjetas SD y PCMCIA, el televisor reproducirá la tarjeta SD. Para reproducir una tarjeta PCMCIA, seleccione "PC" en "Card" (Tarjeta) del Setup Menu después de introducir la tarjeta PCMCIA.

1 Introduzca la tarjeta en la ranura apropiada (vea las página 17).

Press to display the thumbnail screen.

Número de imagen/Número total de imágenes

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

Notas:
• Si hay muchos archivos o el tamaño del archivo es grande se puede tardar más tiempo en mostrar la imagen miniatura.
• La imagen desaparece de la pantalla mientras Photo Viewer™ accede a la información de la tarjeta. Después de acceder a las imágenes de la tarjeta se muestra una pantalla de imagen miniatura.
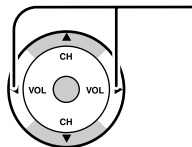
Modo de visión de una sola imagen
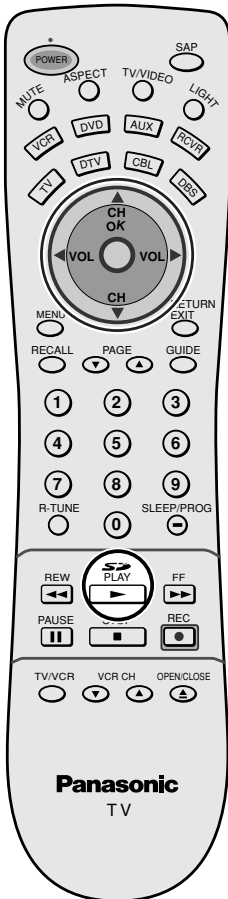
2 Seleccione la imagen miniatura.
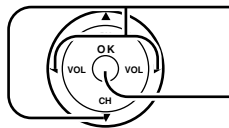
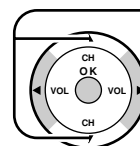Presione para visualizar la imagen en el modo de visión de una sola imagen.

3 Presione para seleccionar la imagen siguiente o la anterior.
• Presione **OK** para volver a la pantalla de imagen miniatura.

Para girar la imagen

Mientras está en el modo de visión de una sola imagen

Presione para girar la imagen noventa grados.

■ Setup Menu (Menú de programación) de Photo Viewer™

En el modo de imagen miniatura o en el modo de visión de una sola imagen

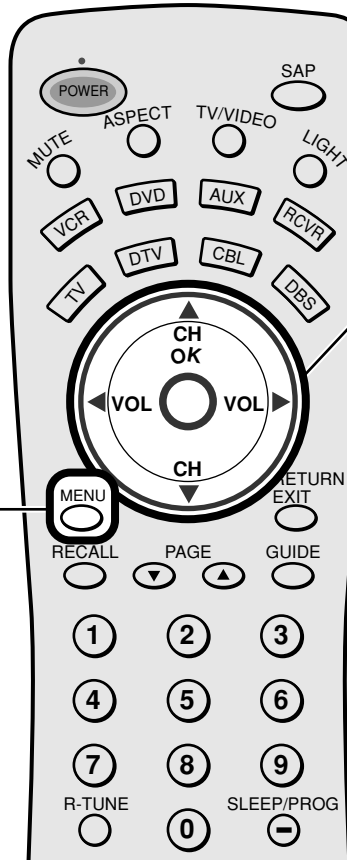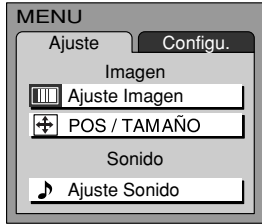Presione para mostrar la pantalla Setup Menu (Menú de programación).

Ajustes de Menú	Volver
Diapositivas	Mostrar
Intervalo	5Seg
Secuencia	Orden
Repetir	Desactivado
Rotar	Izquierda
Zoom	a Justo
Tarjeta	SD

Operaciones con menús

1

Púlselo para visualizar la pantalla MENU.

```
MENU
  Ajuste    Configu.
      Imagen
  ▦ Ajuste Imagen
  ✛ POS / TAMAÑO
      Sonido
  ♪ Ajuste Sonido
```
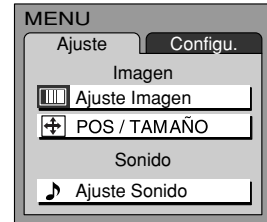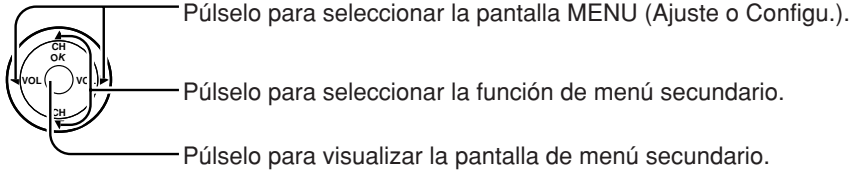
Cuadro de instrucciones de ayuda en pantalla
Cuando se visualiza un menú en el televisor aparece un cuadro de ayuda en la pantalla. Este cuadro de ayuda indica qué teclas del mando a distancia se utilizan para navegar por el menú mostrado.

```
Idioma
  Idioma        ◄ ESPAÑOL ►

           ◄ ○ ► ── CAMBIE
              ○ VUELVE
```

2

```
MENU
  Ajuste    Configu.
      Imagen
  ▦ Ajuste Imagen
  ✛ POS / TAMAÑO
      Sonido
  ♪ Ajuste Sonido
```

O

```
MENU
  Ajuste    Configu.
  ℗ Idioma
  🖳 Prog. Canales
  🔒 Bloqueo
  CC Subtítulos
  ⬚ Ponga Títulos
  ⏱ Otro Ajuste
```

```
MENU
  Ajuste    Configu.
      Imagen
  ▦ Ajuste Imagen
  ✛ POS / TAMAÑO
      Sonido
  ♪ Ajuste Sonido
```

```
MENU
  Ajuste    Configu.
  ℗ Idioma
  🖳 Prog. Canales
  🔒 Bloqueo
  CC Subtítulos
  ⬚ Ponga Títulos
  ⏱ Otro Ajuste
```


46

Púlselo para seleccionar la pantalla MENU (Ajuste o Configu.).

Púlselo para seleccionar la función de menú secundario.

Púlselo para visualizar la pantalla de menú secundario.

RETURN
EXIT
● Para volver a la pantalla anterior :

MENU
● Para salir de la pantalla MENU :   Con esto se retorna a la visión normal.

Ajuste Imagen PAJINA 1/2
	Normal
Imagen	Normal
Luz de Atras	+ 20
CONTRASTE	+ 20
BRILLO	0
COLOR	0
TINTE	0
NITIDEZ	0
Imagen IA	No Si

POS/TAMAÑO
Normal
Normalizar
TAMAÑO
1
VUELVE

Ajuste Sonido PAJINA 1/2
	Normal
Sonido	Dinamico
BAJOS	+ 4
ALTOS	0
BALANCE	0
SON. ENVOL	No Si
EQUALIZ.	No Si
ESTEREO	SPA MONO
Entr. HDMI	Auto

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
Componente1	Componente1
Componente2	Componente2
Video1	Video1
Video2	Video2
HDMI	HDMI

Otro Ajuste PAJINA 1/2
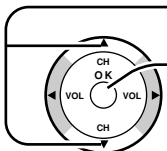REDUC DE RUIDO
No Si
REDUC DE RUIDO MPEG
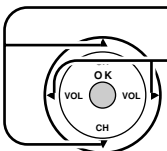No Si
Filtro 3D
No Si
Matriz Color
SD HD

Sintonización de canales

1   Pulse el botón TV/VIDEO para visualizar el canal de TV.

2

Pulse para seleccionar Prog. Canales.

Pulse para visualizar la pantalla
Prog. Canales.

```
MENU
┌─────────┬──────────┐
│ Ajuste  │ Configu. │
└─────────┴──────────┘

  🔢 Idioma
  🔲 Prog. Canales
  🔒 Bloqueo
  CC Subtítulos
  ▭ Ponga Títulos
  ✎ Otro Ajuste
```
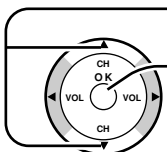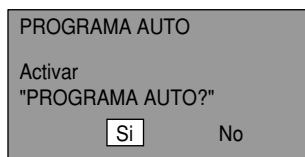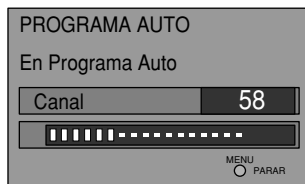
3

Pulse para seleccionar MODO.

Pulse para seleccionar TV o CABLE.

```
Prog. Canales
MODO              TV  CABLE
   PROGRAMA  AUTO
   PROGRAMA  MANUAL
```
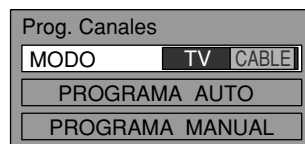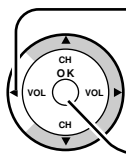
Programación automática de canales

Explora y guarda automáticamente todos los canales de TV.

4

Pulse para seleccionar PROGRAMA AUTO.

Púlselo para visualizar la pantalla
PROGRAMA AUTO.

```
PROGRAMA AUTO

Activar
"PROGRAMA AUTO?"
        Si       No
```

5

Pulse para seleccionar Si.

Púlselo 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.

```
PROGRAMA AUTO

En Programa Auto

Canal               58
▮▮▮▮▮▮▯▯▯▯▯▯▯▯▯▯▯▯
                    MENU
                    ◯ PARAR
```

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 haya canales que puedan recibirse, se visualizará el canal 69 (para TV) o el canal 125 (para TV por cable).

48

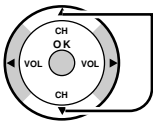## Programación automática de canales

Añada o borre un canal manualmente.

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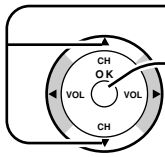
Pulse para seleccionar PROGRAMA MANUAL.
Pulse para visualizar la pantalla PROGRAMA MANUAL.

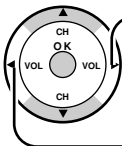| Prog. Canales		
MODO	TV	CABLE
PROGRAMA AUTO		
PROGRAMA MANUAL		

PROGRAMA MANUAL

Entre Canal
   121

5

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

6

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

Púlselo para borrar el canal de la memoria de canales (el número del canal se pone amarillo).
• Repita los pasos 5 y 6 para otros canales.
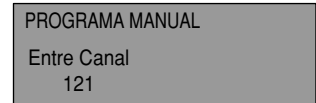
Troubleshooting

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**	**Checks**
Snowy Picture	Noisy Sound	Antenna location, direction or connection.
Multiple Image	Normal Sound	Aerial 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 set to 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 on.
No Colour	Normal Sound	Color controls set at minimum levels. Weak signal.
Poor or Distorted Picture	Weak or No Sound	Retune Channel (s).
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 battery is exhausted. 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 not a problem for performance or quality. 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.
H D M I	Poor Video. (Snow noise, no picture, picture runs, etc.)	HDMI cable is not connected securely. Turn the power supply of the TV set 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.

Specifications

	TC-26LX20	TC-32LX20
Power Source	AC 120 V, 60 Hz	
Power Consumption	Average use : 133 W (Maximum Current 1.7 A) Stand-by condition : 0.4 W	Average use : 164 W (Maximum Current 2.2 A) Stand-by condition : 0.4 W
LCD	26-inch (661mm) 16:9 aspect ratio LCD panel	32-inch (802mm) 16:9 aspect ratio LCD panel
Screen Size (W × H × diagonal)	22.30 ″ ×13.38 ″× 26.00 ″ (556.4 mm × 339.8 mm × 660.5 mm)	27.06 ″ ×16.24 ″× 31.56 ″ 687.4 mm × 412.4 mm × 801.6 mm)
Channel Capability	VHF-12 : UHF-56 : Cable-125	
Sound		
Speakers	ϕ 8 cm × 2 pcs, ϕ 4 cm × 2 pcs, 8 Ω	
Headphones	M3 (3.5 mm) Jack × 1	
FEATURES	CLOSED CAPTION, V-Chip, SD / PC card slots	
Operating Conditions	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 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 × 2 1.0 Vp-p (including synchronization)	
	P_B / P_R × 2 ±0.35 Vp-p AUDIO L-R (RCA PIN Type × 2)× 2 0.5 Vrms	
OUTPUT	AUDIO L-R (RCA PIN Type × 2)× 1 0.5 Vrms	
HDMI	HDMI TYPE A Connector × 1 AUDIO L-R (RCA PIN Type × 2)× 1 0.5 Vrms	
Dimensions (W × H × D)		
Including TV Stand	33.23 ″ × 22.51 ″× 12.64 ″ (844 mm × 571.8 mm × 321 mm)	39.37 ″ × 25.66 ″× 12.64 ″ (1000 mm × 651.7 mm × 321 mm)
TV Set Only	33.23 ″ × 18.82 ″× 5.39 ″ (844 mm × 478 mm × 137 mm)	39.37 ″ × 21.97 ″ × 5.39 ″ (1000 mm × 558 mm × 137 mm)
Mass (Weight)	22.8 kg (59.2 lb.) NET	27.3 kg (60.1 lb.) NET

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

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, read the instructions that came with the cloth carefully.

Mild detergent

CAUTION :
If water or other liquid enters the monitor through the display panel surface, a malfunction may occur.
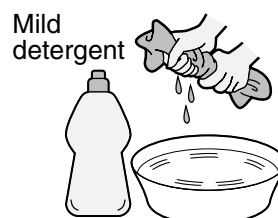
Customer's Record

The model number and serial number of this product can be found on its rear panel. 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 Canada Inc.
5770 Ambler Drive
Mississauga, Ontario
L4W 2T3

Printed in Japan
MBS0204S0