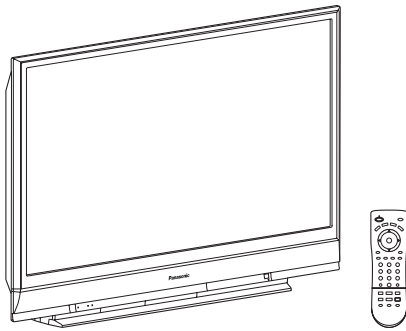


# Panasonic®



## Multimedia Projection HDTV Operating Instructions

Models No. **PT-52LCX66/PT-56LCX66/PT-61LCX66/  
PT-52LCX16/PT-56LCX16/PT-61LCX16**



**HD TV**  
—INTEGRATED TUNER—

**DOLBY**  
DIGITAL

**S**  
TM

**VIVA**  
HD3D Sound **UBE.**

**HDMI™**  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**(USA)**

For assistance, please call :  
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or, contact us via the web at:  
<http://www.panasonic.com/contactinfo>

**(Puerto Rico)**

For assistance, please call :  
**787-750-4300**  
or visit us at [www.panasonicpr.com](http://www.panasonicpr.com)

### Three Important Reasons to Register Your Product Immediately!

- 1 Protect Your New Investment...**  
Register your new Projection Display for insurance purposes in case your new Projection Display is stolen.
- 2 Product safety notification...**  
Registering your product can help us to contact you in the unlikely event a safety notification is required under the Consumer Product Safety Act.
- 3 Improved Product Development...**  
Help us continue to design products that meet your needs.  
Register online at [www.panasonic.com/register](http://www.panasonic.com/register)



\* The presence of the DTV certification mark indicates that this product will successfully receive digital television transmissions that conform to any and all of the video formats described in the ATSC Digital Television Standard.



As an **ENERGY STAR®** Partner, Panasonic Corporation of North America has determined that this product or product model meets the **ENERGY STAR®** guidelines for energy efficiency.

This operating instruction book is designed for use with models PT-52LCX66, PT-56LCX66, PT-61LCX66, PT-52LCX16, PT-56LCX16 and PT-61LCX16. Illustrations in this manual show the PT-56LCX16.

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

# ⚠ IMPORTANT SAFETY INSTRUCTIONS



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.



The pictorial representation of a hot surface within a triangle is intended to tell the user that parts inside the product are a risk of burns to persons.

## Note to CATV System Installer:

This reminder is provided to call 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.

## ⚠ WARNING

To reduce the risk of electric shock, fire, injury to persons or damage to this product:

- 1) **Read these instructions** before using, connecting or adjusting this product.
- 2) **Keep these instructions** for future reference.
- 3) **Heed all warnings** on the product and in this Operating Instructions manual.
- 4) **Follow all instructions** carefully.
- 5) **Do not use this apparatus near water.** For example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement or near a swimming pool, and the like. Do not place objects filled with water, such as a vase or the like, on top of this unit.
- 6) **Clean only with a dry cloth.** Do not use liquid cleaners or aerosol cleaners.
- 7) **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.** Openings in the cabinet are provided for ventilation to ensure reliable operation and to protect it from overheating. Never block openings by placing the product on a bed, sofa or similar surfaces.
- 8) **Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produces heat.** Do not install 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.**
- 13) **Unplug this apparatus during lightning storms or when unused for long periods of time.**
- 14) **Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.**
- 15) Because the temperature of the lamp unit is elevated immediately after its use, a direct touch to it may cause burns. **Replace the lamp unit only after it has cooled.**



# ⚠ IMPORTANT SAFETY INSTRUCTIONS (CONTINUED)

## ⚠ WARNING

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

## ⚠ WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. DO NOT PLACE OBJECTS FILLED WITH WATER, SUCH AS A VASE OR THE LIKE, ON TOP OF THIS APPARATUS.

## ⚠ CAUTION

- (1) This Projection Display is intended to be used with the following TV stand: model TY-52LC66 for the PT-52LCX66 or PT-52LCX16, TY-52LC16 for the PT-52LCX66 or PT-52LCX16, TY-56LC66 for the PT-56LCX66 or PT-56LCX16, TY-56LC16 for the PT-56LCX66 or PT-56LCX16, and TY-61LC66 for the PT-61LCX66 or PT-61LCX16. Use with other stands may result in the Projection Display becoming unstable, possibly causing injury.
- (2) This Projection Display should not be exposed to direct sunlight, extreme temperatures or moisture, as this can result in serious irreparable damage.
- (3) This Projection Display has a High Intensity Discharge (HID) lamp that contains a small amount of mercury. It also contains lead in some components.  
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: <<http://www.eiae.org>>

The Lamp is a consumable item and has a limited life.

The lamp should be changed as soon as possible once the lamp warning message appears. (p. 64)

If the lamp is damaged, please contact your nearest dealer.

Due to the characteristics and use conditions of individual lamps, the lamp may cease to light before the stated lamp life.

Influences of frequent lighting, continuous light use for over 24 hours, the number of times lit, the length of time between lightings, etc. may shorten lamp life.

(Because of this, we recommend having a replacement lamp on hand.)

## Trademarks

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  - Macintosh is a registered trademark of Apple Computer, USA.
  - SVGA is trademark of the Video Electronics Standard Association.
- Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- Equipped with **dbx**<sup>®</sup>-TV Noise Reduction for true MTS reproduction. **dbx**<sup>®</sup>-TV Noise Reduction is required for good stereo separation and audio fidelity. **dbx**<sup>®</sup> is a registered trademark, and is licensed by **dbx**<sup>®</sup> Technology Licensing.



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SD Logo is a trademark.



Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

License description: To view the license information for software used in this product, press MENU button and select "Setup" → "About" → "License". (p. 55)

## Note:

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

# Dear Panasonic Customer

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

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

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

Visit our Panasonic Web Site for USA : [www.panasonic.com](http://www.panasonic.com)

## (USA)

For assistance, please call : 1-888-VIEW PTV(843-9788)  
or, contact us via the web at: <http://www.panasonic.com/contactinfo>

## (Puerto Rico)

For assistance, please call : 787-750-4300  
or visit us at [www.panasonicpr.com](http://www.panasonicpr.com)

## FCC STATEMENT:

### NOTE:

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

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

## FCC Caution:

To assure continued compliance, follow the attached installation instructions and use only shielded interface cables when connecting to computer or peripheral devices. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

ANY CHANGES OR MODIFICATIONS TO THIS PTV RECEIVER NOT EXPRESSLY APPROVED BY PANASONIC CORPORATION OF NORTH AMERICA COULD CAUSE HARMFUL INTERFERENCE, WHICH WOULD VOID THE USER'S AUTHORITY TO OPERATE THIS EQUIPMENT.



The Class II insulation symbol (square within a square) indicates that this product has been evaluated and tested to comply with Class II insulation requirements.

### Declaration of Conformity

Models Number: **PT-52LCX66/PT-56LCX66/PT-61LCX66/PT-52LCX16/PT-56LCX16/PT-61LCX16**  
Trade Name: Panasonic  
Responsible party: Panasonic Corporation of North America  
Address: One Panasonic Way Secaucus New Jersey 07094  
Telephone number: 1-888-VIEW PTV(843-9788)

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

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# Before Using

## Receiver Location

This Projection Display is intended to be used with an optional stand or entertainment center. Consult your dealer for available options.

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

Use of some types of fluorescent lighting can reduce Remote Control transmitter range.

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

## Optional External Equipment

The Video / Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75  $\Omega$  coaxial shielded cables. Cables are available from your dealer or electronic supply house.

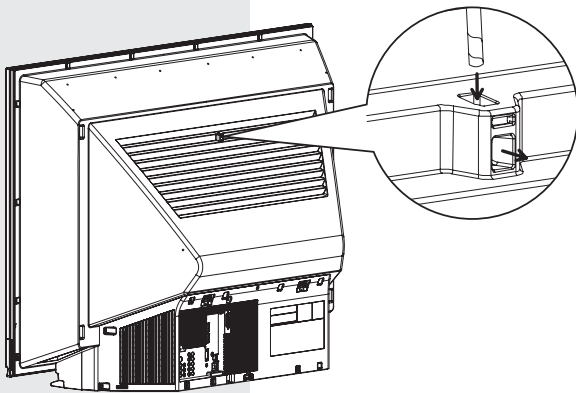
Before you purchase any cables, be sure you know what type of output and input connectors your various components require. Also determine the length of cable you'll need.

## Safety Precaution

Please take safety precautions to prevent the unit from falling over.

### **WARNING**

The unit may tip or fall if not situated on a stable surface, if pushed or during an earthquake. Use a strong rope or chain (not included) to fasten the Projection Display firmly to a strong wall support.



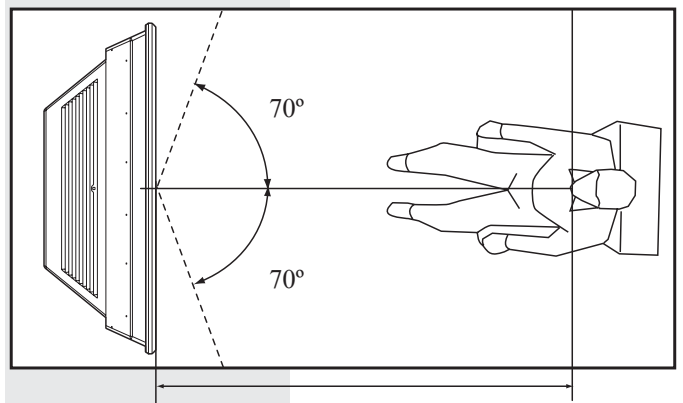
## Accessories

1. Remote Control (EUR7613ZH0)
2. Batteries 2 "AA"

## Viewing position

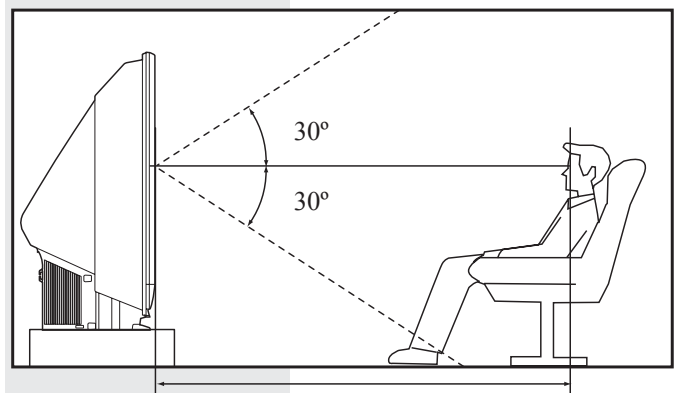
To optimize your viewing comfort, please follow the viewing guidelines shown in the diagrams below. If viewing for an extended period of time, sit as far back from the screen as possible.

<Top view>



At least 1.8 m (PT-52LCX66/PT-52LCX16) / 2.0 m (PT-56LCX66/PT-56LCX16) / 2.2 m (PT-61LCX66/PT-61LCX16).

<Side view>



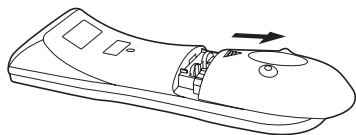
At least 1.8 m (PT-52LCX66/PT-52LCX16) / 2.0 m (PT-56LCX66/PT-56LCX16) / 2.2 m (PT-61LCX66/PT-61LCX16).



## Remote Control Battery Installation

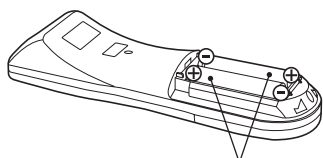
Requires two AA batteries (supplied).

1. Slide the battery cover in direction of arrow.



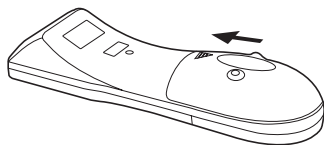
2. Install batteries in the battery compartment.

- Battery polarity (+) and (-) must match the markings inside the compartment.



Two AA size

3. Slide the battery cover until it snaps shut.



### CAUTION

Incorrect battery installation can cause the batteries to leak, leading to personal injury and/or damage to the Remote Control.

**Observe the following precautions:**

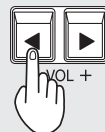
1. Always replace batteries with a pair of new ones.
2. Do not combine a new battery with an old one.
3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when the Remote Control acts sporadically or stops operating the Projection Display set.

## Helpful Hints:

- (1) Frequent Remote Control users, choose long-lasting Alkaline batteries as replacements.
- (2) Whenever batteries are removed, **you may need to reset Remote Control infrared codes.** We suggest making a note of the codes on page 58 prior to setting up the remote.

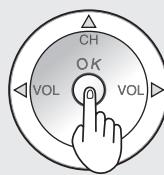
## Reset All Memory Functions

Use when moving unit to a new location, or when First Time Setup needs to be done over.



Press together the VOL- button on the unit and OK button on the Remote Control for more than 3 seconds. Unit shuts itself off when reset is done.

- POWER indicator flashes red. After flashing stops, unplug the unit then plug it back in and turn power ON.



### Note:

- When using "Control with HDMI (HDAVI Control)", with the device connected, set "Ctrl with HDMI" first to "Off" and then "On" using the Setup Menu. (p. 56)

# Before Using (continued)

## Glossary and Acronyms

**CC (Closed Caption)**

**OSD (On-Screen Display)**

**MSO (Multiple system owner/operator)**

**Dolby Digital**

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be multichannel audio. A large amount of audio information can be recorded on one disc using this method.

**PCM (pulse code modulation)**

These are uncompressed digital signals, similar to those found on CDs.

**DTV (Digital Television)**

Name of the process whereby television picture and sound signals are changed to digital code for receiving and transmitting.

**HDTV (High Definition Television)**

Television with improved picture quality by increasing vertical and horizontal resolution.

**ATSC (Advanced Television Systems Committee)**

Standardization body that developed the Digital Television Terrestrial formats.

**HDMI (High Definition Multimedia Interface)**

Interface that supports every uncompressed digital format as well as all existing multi-channel audio format on a single cable.

**JPEG (Joint Photographic Experts Group)**

A system used for compressing/decoding color still pictures.

**MPAA (Motion Picture Association of America)**

Guild governing rating assignments to movies.

**NTSC (National Television Systems Committee)**

Standardization body that developed the Analog Television Terrestrial formats.

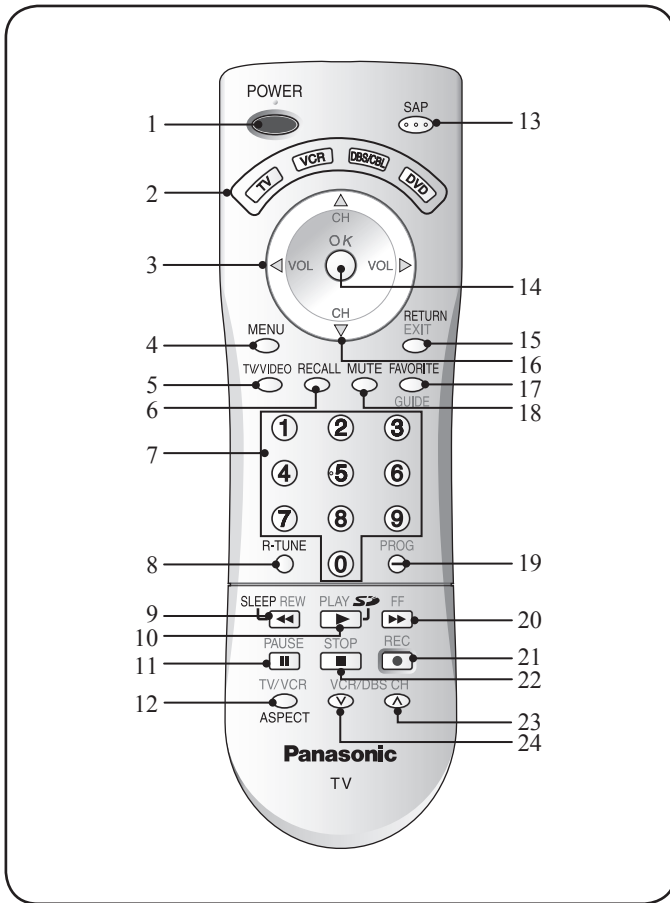
**Password**

A four (4) digit code a user must provide in order to perform a function.



# Location of Controls

## Illuminated Remote Control



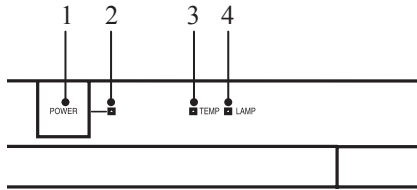
1	<b>POWER</b>	Press to turn ON and OFF.
2	<b>TV</b>	Sets the remote to control television or digital television.
	<b>VCR, DBS/CBL, DVD</b>	Sets the remote to control other devices.
3	<b>VOL +/- / ◀▶</b>	Press to adjust TV sound and to navigate menus.
4	<b>MENU</b>	Press to display Main Menu.
5	<b>TV/VIDEO</b>	Changes Input source.
6	<b>RECALL</b>	Press to display or delete Channel banner.
7	<b>NUMBER</b>	Press numeric keypad to select any channel or to make alpha-numeric entries in menus.
8	<b>R-TUNE</b>	Press to switch to previously viewed channel or input modes.

9	<b>SLEEP</b>	Sets unit to shut itself off after a preselected amount of time.
	<b>REW</b>	While remote is in VCR or DVD mode, press to rewind.
10	<b>PLAY</b>	While remote is in VCR or DVD mode, press to play.
	<b>SD</b>	Accesses the Photo Viewer feature.
11	<b>PAUSE</b>	While remote is in VCR or DVD mode, press to pause.
12	<b>TV/VCR</b>	Press to switch to TV or VCR.
	<b>ASPECT</b>	Changes display aspect ratio.
13	<b>SAP</b>	In analog mode, press to access audio modes (Stereo, SAP or Mono). In digital mode, press to access next audio track.
14	<b>OK</b>	Press to select menu and sub-menu items.
15	<b>RETURN</b>	Press to return one step backward in menus.
	<b>EXIT</b>	Press to exit menus.
16	<b>CH ▲▼</b>	Press to change channels and to navigate menus.
17	<b>FAVORITE</b>	Press to operate the Favorite channel list function.
18	<b>MUTE</b>	Press to mute sound.
19	<b>PROG</b>	Press after entering a digital channel to enter a sub-channel.
20	<b>FF</b>	While remote is in VCR or DVD mode, press to fast forward.
21	<b>REC</b>	While remote is in VCR mode, press to record.
22	<b>STOP</b>	While remote is in VCR or DVD mode, press to stop.
23	<b>VCR/DBS CH ▲</b>	While remote is in VCR or DBS mode, press to change VCR or DBS channels.
24	<b>VCR/DBS CH ▼</b>	

# Location of Controls (continued)

## Controls and Terminals on the Projection Display

### Front View <Model PT-56LCX16 unit shown>



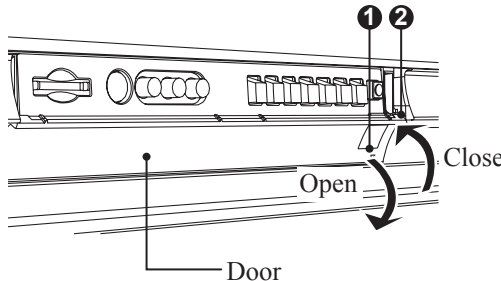
1	<b>POWER button</b>	Press to turn ON and OFF. (p. 63, 66)
2	<b>POWER indicator</b>	Lights up green when power is ON. (p. 24, 63)
3	<b>TEMP indicator</b>	Flashes when unit internal temperature is abnormal. (p. 63)
4	<b>LAMP indicator</b>	Lights up or flashes when the lamp unit is malfunctioning. (p. 63)



Remote Control Sensor

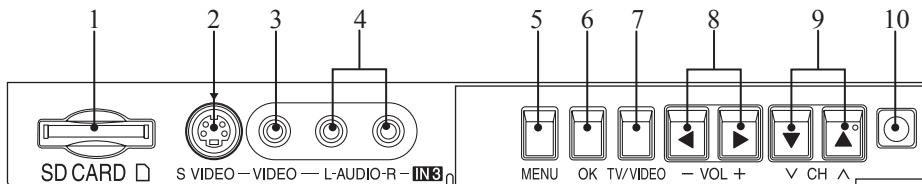
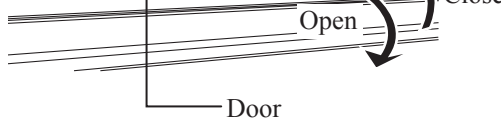
#### Open Door:

Press position ①, and slide Door open as shown by arrow.



#### Close Door:

Press position ②, and slide Door closed as shown by arrow.

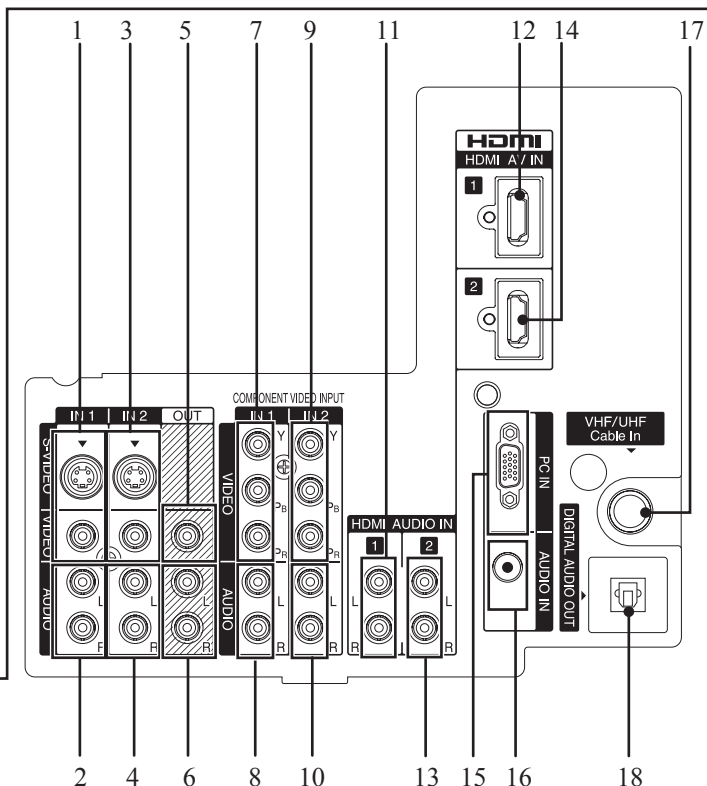
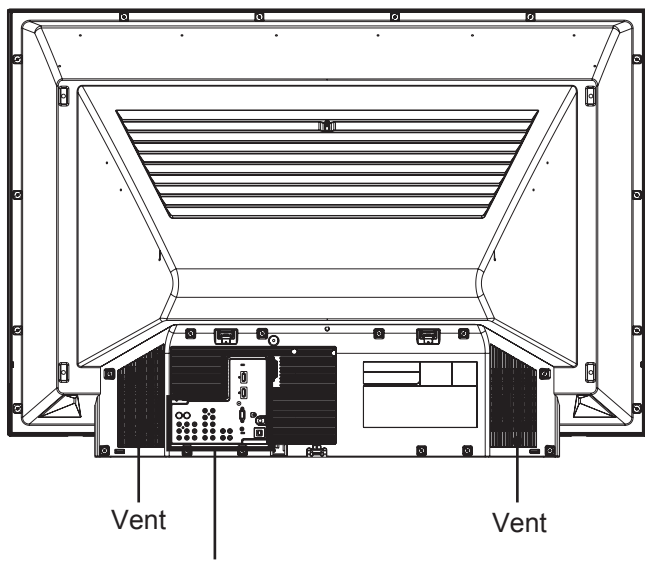


1	<b>SD CARD Slot</b>	Insert SD Card.
2	<b>S-Video Input Connector 3</b>	Connect from other component. (Video 3)
3	<b>Video Input Connector 3</b>	Connect from other component. (Video 3)
4	<b>Audio Input Connector 3</b>	Connect from other component. (Video 3)
5	<b>MENU*</b>	Press to display Main Menu.

6	<b>OK*</b>	Press to select menu and sub-menu items.
7	<b>TV/VIDEO*</b>	Changes Input source.
8	<b>VOL -+ / ◀▶*</b>	Press to adjust TV sound and to navigate menus.
9	<b>CH ▼▲ / ▼▲*</b>	Press to change channels and to navigate menus.
10	<b>Remote Control Sensor</b>	Receives infrared signal from Remote Control.

\* Buttons listed above operate the same as Remote Control buttons of the same name.

**Rear View <Model PT-56LCX16 unit shown>**



1	<b>S-Video/Video Input Connector 1</b>	Connect from other component. (Video 1)
2	<b>Audio Input Connector 1</b>	Connect from other component. (Video 1)
3	<b>S-Video/Video Input Connector 2</b>	Connect from other component. (Video 2)
4	<b>Audio Input Connector 2</b>	Connect from other component. (Video 2)
5	<b>Video Out Connector</b>	Output video signal.
6	<b>Audio Out Connector</b>	Output audio signal. (Analog)
7	<b>Component Video Input Connector 1</b>	Connect from other component. (Component 1)
8	<b>Audio Input Connector 1</b>	Connect from other component. (Component 1)
9	<b>Component Video Input Connector 2</b>	Connect from other component. (Component 2)

10	<b>Audio Input Connector 2</b>	Connect from other component. (Component 2)	
11	<b>HDMI Input Terminal 1</b>	<b>Audio 1</b>	Connect from other component. (HDMI 1)
12		<b>Audio/Video 1</b>	Connect from other component. (HDMI 1)
13	<b>HDMI Input Terminal 2*</b>	<b>Audio 2</b>	Connect from other component. (HDMI 2)
14		<b>Audio/Video 2</b>	Connect from other component. (HDMI 2)
15	<b>PC (RGB) Input Connector</b>	Connect from PC. (PC)	
16	<b>Audio Input Connector</b>	Connect from PC. (PC)	
17	<b>VHF/UHF Cable In</b>	Input terminal for an antenna or cable box signal.	
18	<b>DIGITAL AUDIO OUT</b>	Output audio signal (Digital)	

\* For models PT-52LCX16/PT-56LCX16/PT-61LCX16

**Notes:**

- Make sure the vents are not blocked. (This could cause damage.)
- Indication on the back panel may change without notice.

# Installation

## Notes on connections

- Turn off the power supply for all components before making any connections.
- If the cables necessary for connecting a component to the system are not included with the component or available as an option, you may need to fashion a cable to suit the component concerned.
- Read the instruction manual for each system component carefully before connecting it.
- If there is a lot of jitter in the video signal input from the video source, the picture on the screen may flicker. In this case, it will be necessary to connect a TBC (time base corrector).

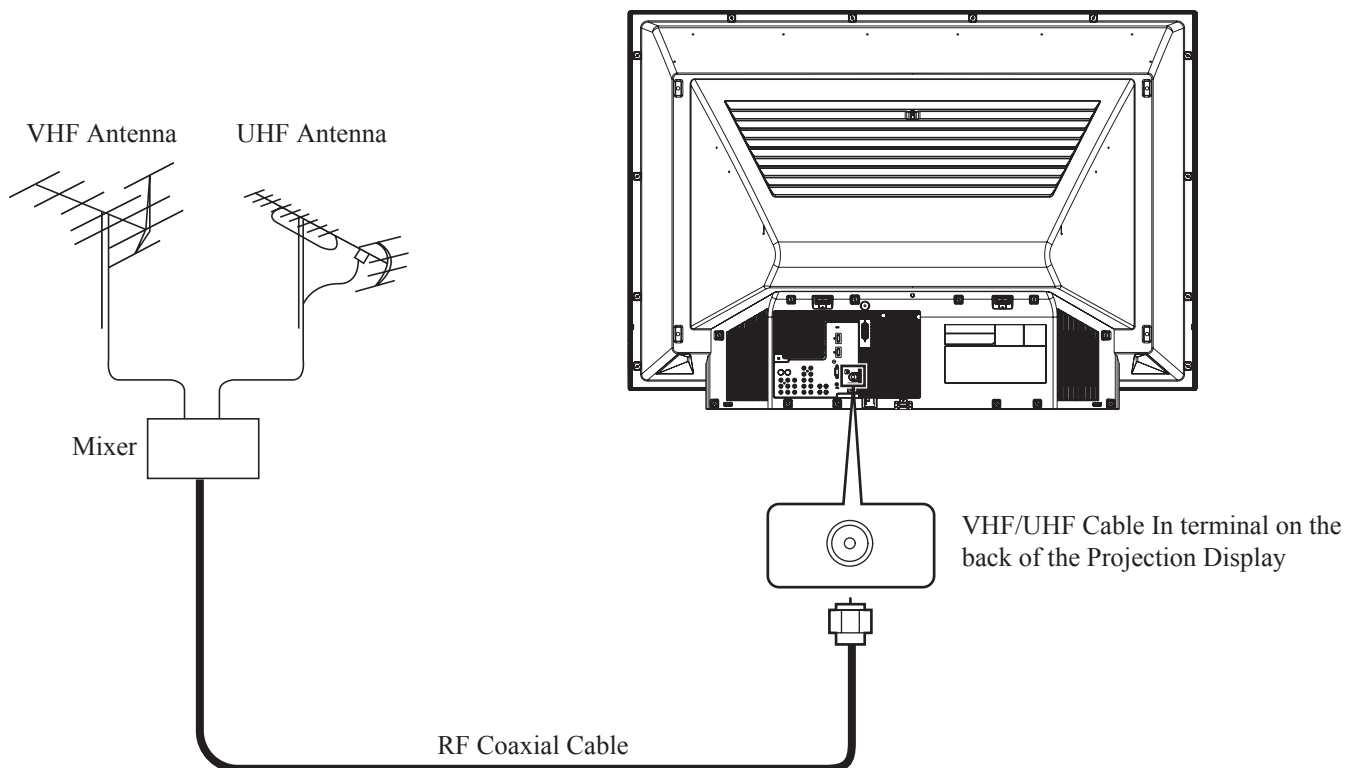
## CAUTION

When using “Nut type” RF coaxial cable, tighten with fingers only. Overtightening may damage terminal.

## Connecting the Antenna / Cable to the RF IN Terminal

### Antenna Connection

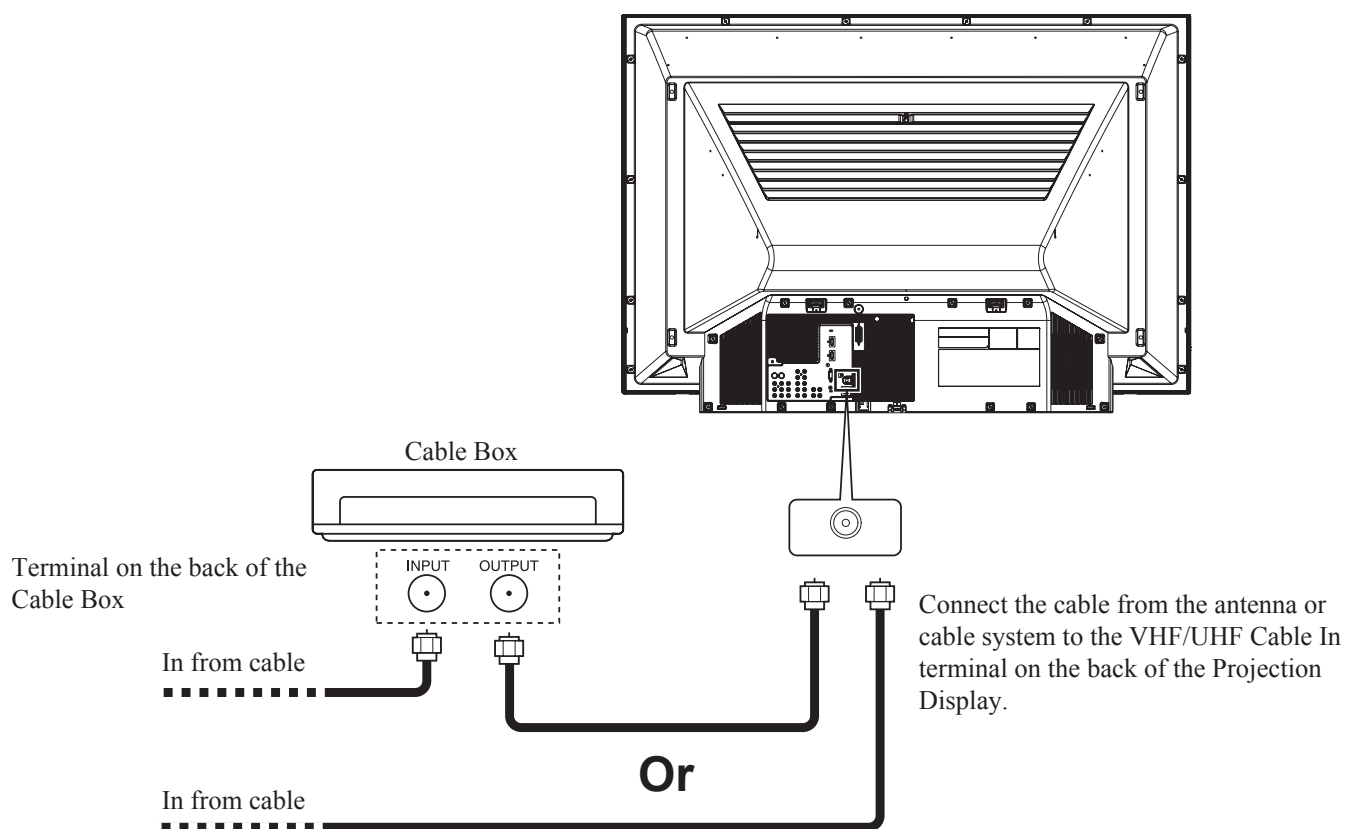
For proper reception of digital and analog VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.



## Cable Connection

For proper reception of analog or digital cable channels, a cable service connection is required.

Use this configuration when connecting the projection display to a cable TV system.



### Notes:

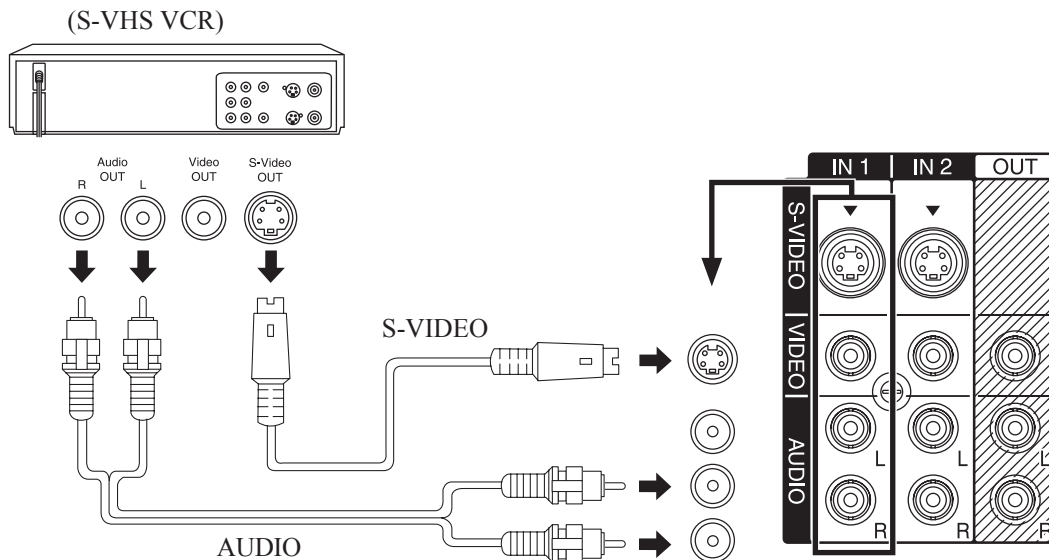
- Certain cable systems offset some channels to reduce interference or have Premium (scrambled) channels. A cable converter box is required for proper reception. Check with your local cable company for its compatibility requirements.
- For reception of cable channels, connect the cable supplied by your local cable company.

# Installation (continued)

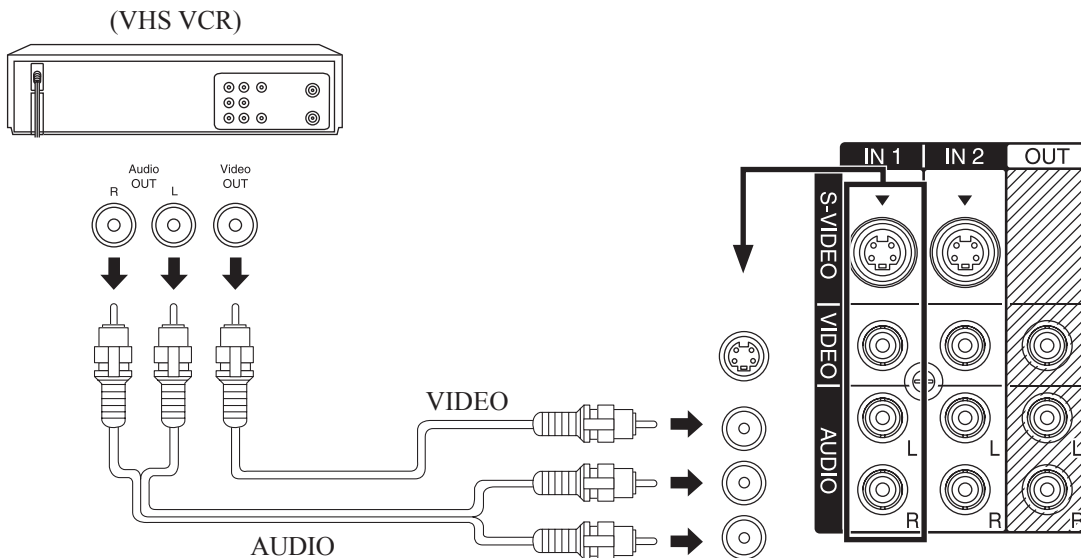
## How to connect the "1, 2, 3" Input Terminals

Input 3 is located on the front of the unit. (p. 10)

Connect a VCR or other peripheral equipment



Similar connections are available at the INPUT 1, 2, 3 input terminals. (p. 10-11)



Similar connections are available at the INPUT 1, 2, 3 input terminals. (p. 10-11)

### Notes:

- Select the desired VIDEO input position by pressing the TV/VIDEO button. (p. 32)
- When connecting video cables, priority is given to the S-Video cable when the S-Video input terminal and the video input terminal are connected at the same time.

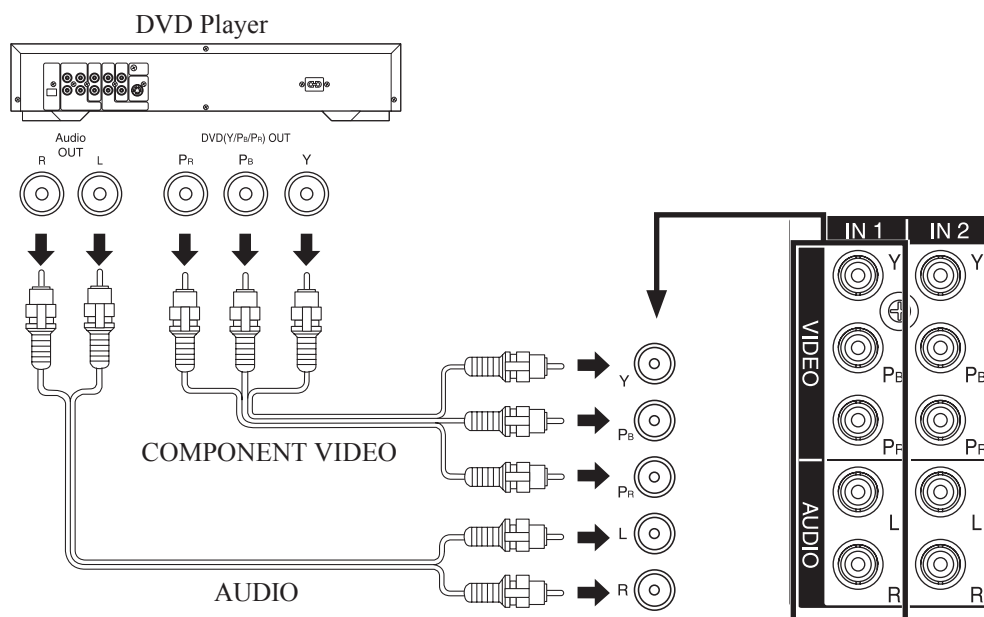


## How to connect the COMPONENT VIDEO Input Terminals

Because each Y, P<sub>B</sub>, and P<sub>R</sub> signal is input independently, the Component signal allows for more accurate color reproduction.

The Component signal output terminal indication will differ according to the output device (Y, P<sub>B</sub>, P<sub>R</sub>). Please read the operating instructions included with the output device.

### Connecting a DVD Player to COMPONENT VIDEO IN



Similar connections are available at the COMPONENT VIDEO INPUT 1-2 Terminals.

(p. 11)

#### Notes:

- Select the desired COMPONENT VIDEO INPUT position by pressing the TV/VIDEO button. (p. 32)
- Component video signals that will be recognized are 480i, 480p, 720p, and 1080i.

### Component Signals (Y, P<sub>B</sub>, P<sub>R</sub>) that can be Input

Mode type		Signal data		Information menu display
		No. of dots (H × V)	Vertical frequency (Hz)	
DTV Format Signals	480i	720 × 480	59.94/60.00	480i
	480p	720 × 480	59.94/60.00	480p
	720p	1 280 × 720	59.94/60.00	720p
	*1080i	1 920 × 1 080	59.94/60.00	1080i

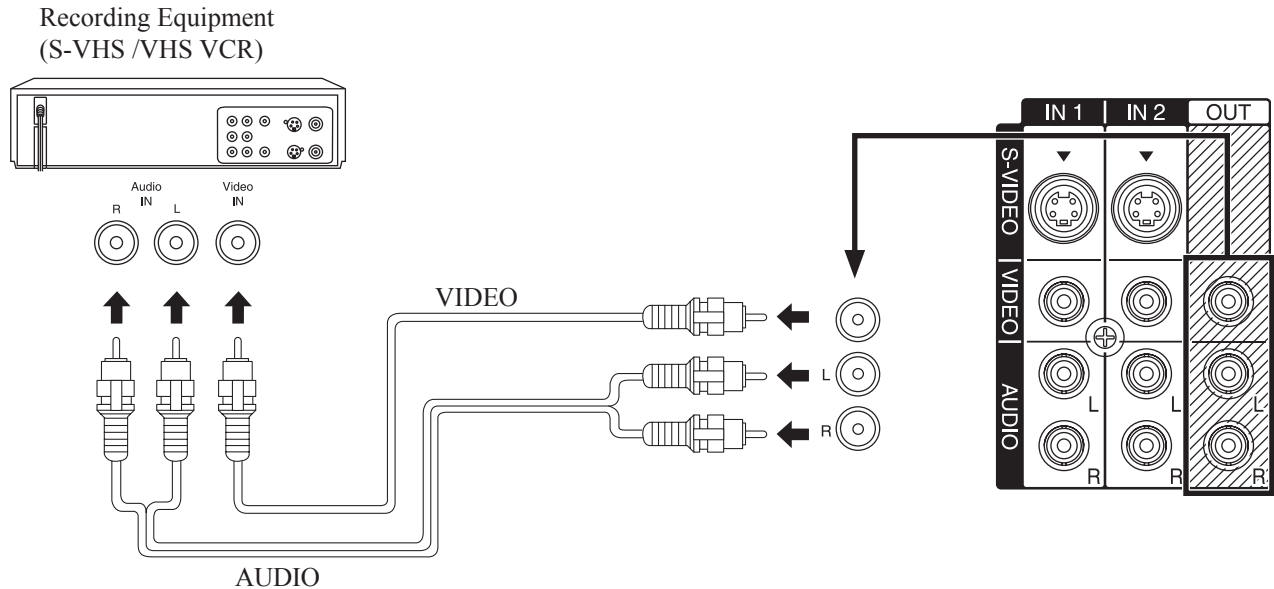
#### Note:

- Input signals, other than those listed with a \* mark, will give you a beautiful, stable picture.

# Installation (continued)

## How to connect the AV OUT Terminals

You can connect a VCR to the AV OUT terminal to record the program you are viewing on-screen. An external monitor can also be connected to the AV OUT terminals. Connect the VCR as shown below.



### Notes:

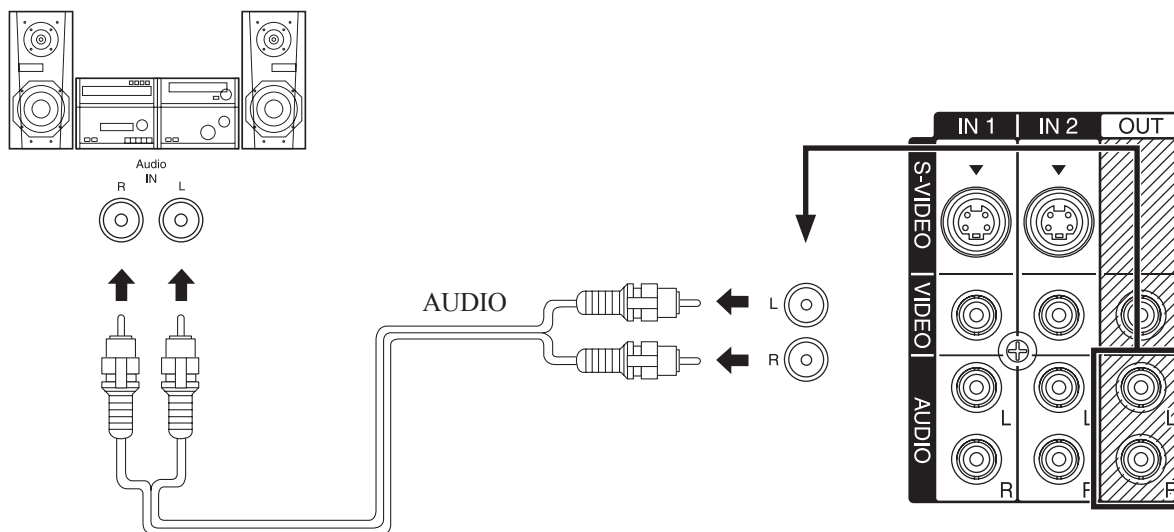
- This unit contains Video and Audio Outputs for the purpose of recording television programming to VCR. Due to license restrictions, if a device (STB, DVD, etc.) is connected to the HDMI input of the unit, no video or audio output is allowed.
- AV OUT signal is available when receiving digital channel. However, all formats will be down converted to NTSC.
- Never connect the VIDEO IN and OUT terminals to the same video recorder, as this could cause incorrect operation.
- AV terminals will not output Y, P<sub>B</sub>, P<sub>R</sub>, PC/HDMI IN or SD card signals.

## How to connect the Amplifier

### Analog Audio Out

To listen to the audio through a separate stereo system, connect an external audio amplifier to AUDIO OUT on back of unit.

Stereo System  
(A Stereo Amplifier and Speakers)



### Audio Adjustments

- Select Speakers Off in Other adjust menu under Audio menu. (p. 41)
- Set amplifier volume to the preferred level.

### Notes:

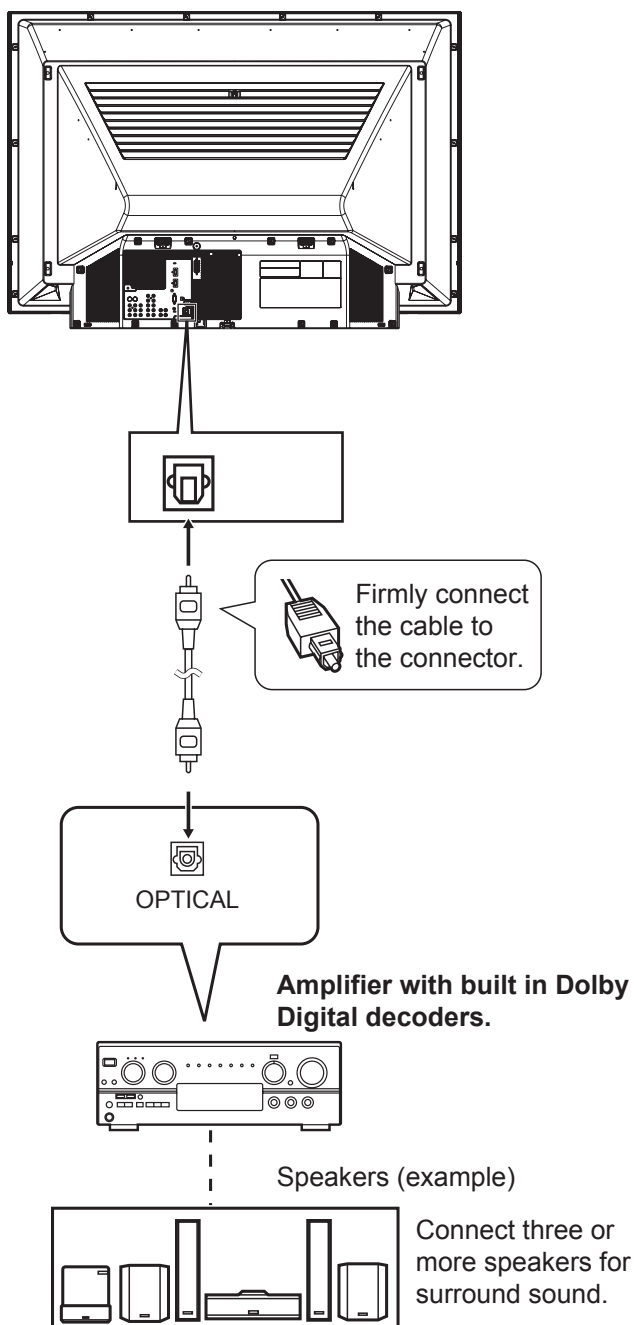
- AUDIO OUT terminals cannot be connected directly to external speakers.
- AV terminals will not output Component Video, PC/HDMI IN or SD card signals.

# Installation (continued)

## Digital Audio Out

Use the diagram below to connect the Digital Audio Output of your Projection Display to a Dolby Digital decoder.

Dolby Digital 5.1 channel surround sound delivers digital-quality sound. Dolby Digital provides five discrete full-bandwidth channels for front left, front right, center, surround left and surround right, plus a LFE (Low Frequency Effect) subwoofer channel. For a full Home Theater sound experience, an external Dolby Digital decoder and a multichannel amplifier must be connected to the Digital Audio Out jack on the unit.



### Procedure

Connect the Digital Audio cable from the Digital Audio Out jack on the unit to the Digital Audio In connection on the Dolby Digital decoder.

### Notes:

- When ATSC channel is selected, the output from the Digital Audio Out jack will be Dolby Digital. But, if NTSC channel is selected, the output will be PCM.
- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.

## How to connect the HDMI input terminal

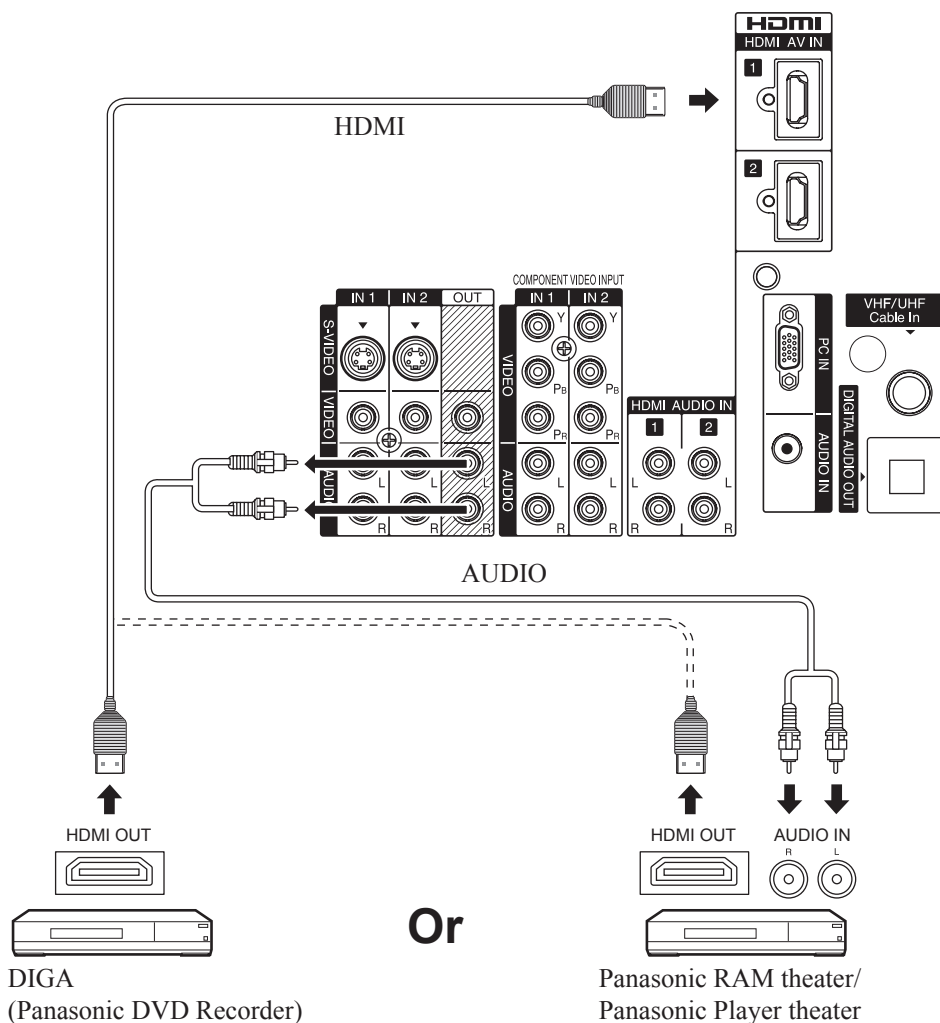
### Recommended HDMI Connections

Follow the connection diagrams below for HDMI control of a single AV equipment such as a Panasonic DIGA-DVD recorder, RAM Theater or Player Theater system. Refer to page 56 for Setup Menu settings and additional control information.

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

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

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



- For DIGA:
  - Connect with HDMI cable (HDMI 1 is recommended (For models PT-52LCX16/PT-56LCX16/PT-61LCX16)).
- For RAM theater and Player theater:
  - Always connect to the HDMI 1 terminal (For models PT-52LCX16/PT-56LCX16/PT-61LCX16).
  - Connect with HDMI cable and audio cable.
  - Connect this unit's AUDIO OUT (L&R) to listen to the TV program through the theater system.

### ■ Setting this unit after connections

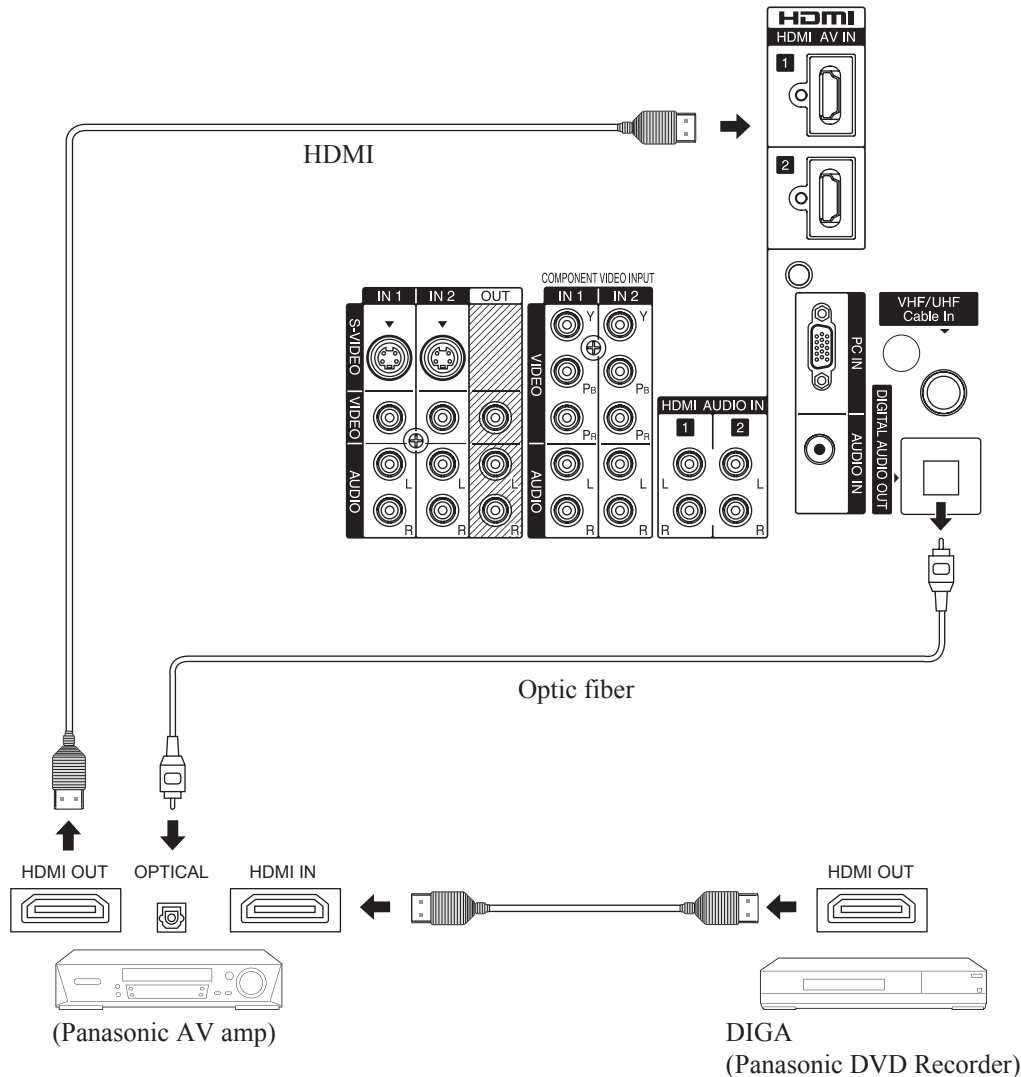
After making connections as shown above, set "Ctrl with HDMI" (under "Other adjust") first to "Off" and then "On" using the Setup Menu. (p. 56)

# Installation (continued)

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

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

- One AV amp and one DIGA can be operated with this unit.
- Be sure to connect the AV amp between this unit and the DIGA.
- Always connect to the HDMI1 terminal (For models PT-52LCX16/PT-56LCX16/PT-61LCX16).



## ■ Setting this unit after connections

After making connections as shown above, set “Ctrl with HDMI” (under “Other adjust”) first to “Off” and then “On” using the Setup Menu. (p. 56)

### Notes:

- Individual HDMI devices may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.
- When audio from other equipment connected to this unit via HDMI is output using “DIGITAL AUDIO OUT” of this unit, the system switches to 2CH audio.  
(When connected to an AV amp via HDMI, you will enjoy higher sound quality.)  
(Current as of March 2006)
- We recommend using Panasonic HDMI cables RP-CDHG15 (1.5 m), RP-CDHG30 (3.0 m), RP-CDHG50 (5.0 m), etc. (Product numbers correct as of January 2006.)



## Procedure

- 1 Connect the HDMI output on the DVD Recorder or Set Top Box, etc., to the HDMI input on the back of the unit.
  - If you cannot display the picture because your Digital Set Top Box does not have a Digital Out terminal setting, use the Component Video Input (or the S-Video Input or Video Input). In this case, the picture will be displayed as an analog signal.
- 2 Press TV/VIDEO to select HDMI input.

By inputting a High-bandwidth Digital Content Protection high-definition picture source to the HDMI IN terminal of this Projection Display, high-definition pictures can be displayed on the screen in their digital form. (This terminal is for use with HDMI equipped DVD players, Set top boxes and D-VHS machines.)

### Notes:

- Select the HDMI input position by pressing the TV/VIDEO button. (p. 32)
- The HDMI IN terminal can only be used with 1080i, 720p, 480p and 480i picture signals.
- If there is no audio, check if the source equipment has PCM output. If not, please use analog connections.
- Be sure HDMI is securely connected. If not, picture noise and/or incorrect picture display may result.
- With HDMI connection, depending on the signal, the picture may be displayed with unnatural colors (as if red and blue are reversed). Refer to "Color corr." on page 39.
- If the external device has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adaptor cable\*1.
- When the DVI to HDMI adaptor cable\*1 is used, connect the audio cable to the audio input terminal.

\*1 Enquire at your local digital device retailer shop.

## Compatible formats

Video Signal:

The Projection Display is compatible with following formats. Please set the connected device to following one of the formats.

Display mode	No. of dots	Vertical scanning frequency (Hz)	Information menu display
1080i	1920 × 1080	59.94 / 60	1080i
720p	1280 × 720	59.94 / 60	720p
480p	720 × 480 640 × 480	59.94 / 60 59.94 / 60	480p
480i	720 × 480	59.94 / 60	480i

## Audio signal (PCM)

When digital audio is included in the HDMI connection, the compatible sampling frequencies are 48 kHz/44.1 kHz/32 kHz. Refer to "HDMI in" (PT-52LCX66/PT-56LCX66/PT-61LCX66) / "HDMI1 in" or "HDMI2 in" (PT-52LCX16/PT-56LCX16/PT-61LCX16) on page 41.

## About HDMI

HDMI is the first all digital consumer electronics A/V interface that supports several uncompressed standards, enhanced and high definition video formats as well as all existing multi-channel audio formats. One jack supports both video and audio information. The HDMI/HDCP\*1 input can be connected to an EIA/CEA 861/861B\*2 compliant consumer electronic device, such as a set top box or DVD player equipped with a HDMI output connection. By inputting a High-bandwidth Digital Content Protection (HDCP) high definition picture source to the HDMI terminal of this unit, high definition pictures can be displayed on the screen in their digital form. The HDMI input terminal is not intended to be used with personal computers. This unit is compatible with 1080i, 720p, 480p and 480i formats. Select the output of the connected device to match that of the unit.

### Notes:

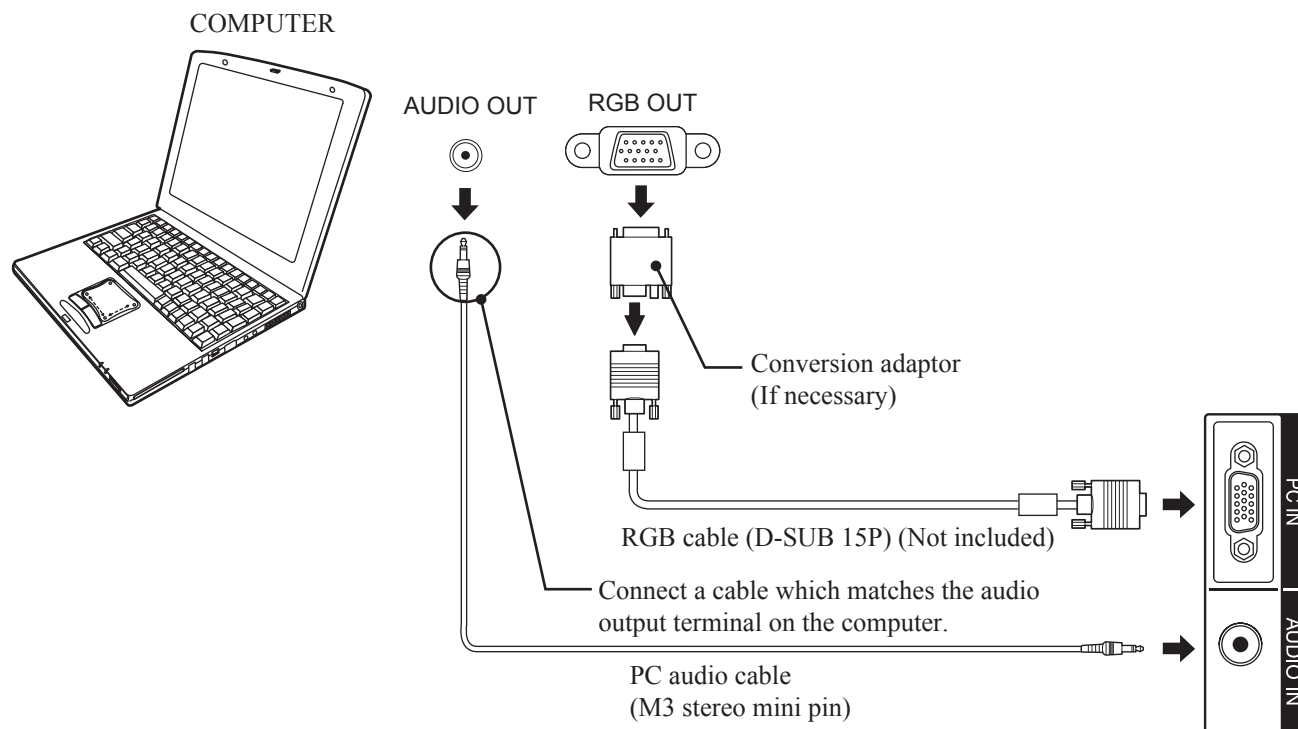
\*1 HDMI/HDCP = High Definition Multimedia Interface / High-Bandwidth Digital Copy Protection.

\*2 EIA/CEA-861/861B Profiles compliance covers profiles for transmission of uncompressed digital video including high bandwidth digital content protection.

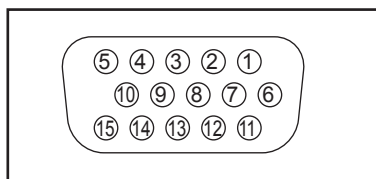
# Installation (continued)

## How to connect the PC IN Terminals

### Connecting a PC to PC IN



### PC IN Terminal (D-SUB 15P) Pin Layouts



Connection port view

Pin No.	Signal name
1	R
2	G
3	B
4	NC
5	NC
6	Ground for R
7	Ground for G
8	Ground for B

Pin No.	Signal name
9	NC
10	Ground
11	NC
12	NC
13	HD/CSYNC
14	VD
15	NC

**NC: Not connected**

#### Notes:

- Some PC models cannot be connected to the set. A conversion adaptor is required to use the RGB cable (D-SUB 15P) (Not included) to connect a Macintosh computer to the set. There is no need to use an adapter for computers with PC / AT compatible D-SUB 15P terminal.
- The computer shown in the illustration is for example purposes only. Additional equipment and cables shown are not supplied with this set.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- Select the desired PC input position by pressing the TV/VIDEO button. (p. 32)

## RGB signals that can be input

The table below lists the different types of RGB signals that can be input. If a signal which differs greatly from the types listed below is input, the picture may not be displayed correctly, or a black background may be displayed.

Mode type		Signal data		
		No. of dots (H × V)	Horizontal frequency (kHz)	Vertical frequency (Hz)
Personal Computer Signals	VGA400 (70 Hz)	640 × 400	31.47	70.08
	VGA480 (60 Hz)	640 × 480	31.47	59.94
	Macintosh 13"	640 × 480	35.00	66.67
	VGA480 (75 Hz)	640 × 480	37.50	75.00
	SVGA (60 Hz)	800 × 600	37.88	60.32
	SVGA (75 Hz)	800 × 600	46.88	75.00
	SVGA (85 Hz)	800 × 600	53.67	85.06
	Macintosh 16"	832 × 624	49.73	74.55
	* XGA (60 Hz)	1 024 × 768	48.36	60.00
	* XGA (70 Hz)	1 024 × 768	56.48	70.07
	* XGA (75 Hz)	1 024 × 768	60.02	75.03
	* XGA (85 Hz)	1 024 × 768	68.67	85.00
	* Macintosh 21"	1 152 × 870	68.68	75.06

### Notes:

- Input signals, other than those listed with a \* mark, will give you a beautiful, stable picture.
- The D-SUB 15P connector can accept RGB (H-V sync separate).
- When an external video processor/scaler is used, it must have RGB (H-V sync separate) output.

# Power ON / OFF

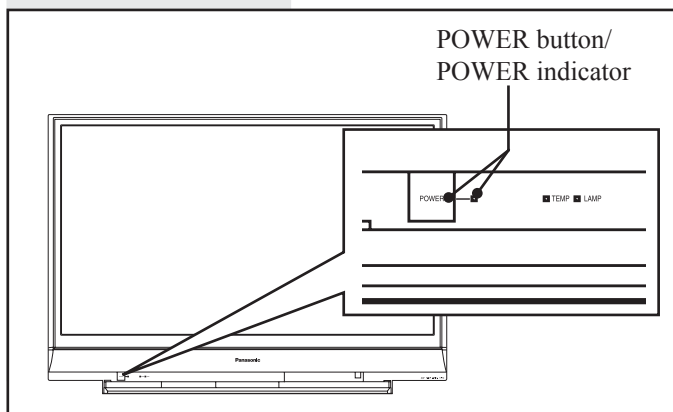


## Turning the Power ON and OFF

Always be sure to follow the procedure given below to turn the Projection Display power ON and OFF.

- The lamp cooling fan will continue to operate for approximately 1 minute after the power is turned off. During this time, the POWER indicator will blink Red.

**Do not disconnect the power cord from the outlet and do not open the circuit breaker (unless necessary) while the cooling fan is still operating. Do not disconnect the power cord from the power outlet while the power indicator blinks Red.**



### The Power Indicator

LED	ACTION
Off	Power – OFF
Red (blinking)	Power – OFF (Now cooling)
Green	Power – ON
Green (blinking)	Power – ON (Preparing to light lamp)

### Notes:

- If the POWER button is accidentally turned off during use, after power is turned back on, it may take a short period before the lamp automatically comes on.
- After the unit is turned on, maximum picture brightness will be achieved in 5-10 minutes. This is normal.
- This unit consumes approx. 0.4 W in OFF condition when plugged into an AC outlet.

## Power ON

Press POWER on Projection Display or Remote Control to turn power on.

The Power Indicator blinks Green for about 20 seconds and then turns solid Green.

## Power OFF

Press POWER on Projection Display or Remote Control to turn power off.

Power shuts off after a Black Screen is displayed for a few seconds.

### Note:

- If the POWER button is pressed during the Black Screen display, Power is turned back on.

The Power Indicator blinks Red for about 1 minute and then LED turns off.

### Note:

- When the power cord is disconnected, the internal cooling fan stops operating. In this case, the lamp will be insufficiently cooled and will take a while to turn ON again.

## Auto shut off

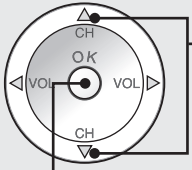
To conserve lamp life, if there is no signal to the set's tuner for 5 minutes, the lamp will shut off automatically.

## First Time Setup

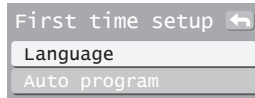
For your convenience, First Time Set up menu will be displayed on screen when the set is turned on for the first time. If needed, follow the menus and procedures displayed on-screen for setting up the features.

### Language

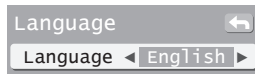
The language of the on-screen display is set to English as the factory setting. You can select English, Spanish or French as the on-screen displays language.



**1**  Press to select "Language".

Press to display Language screen.



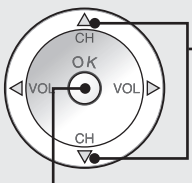
**2**  Press to select "English," "Español" or "Français".



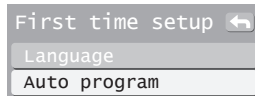
**3**  Press to go to previous screen. Or, select  icon, then press OK for same results.

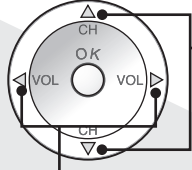
### Auto program

You can scan All (Analog and Digital) channels. If needed, follow the menus and procedures displayed on-screen for setting up the features. You can also make the settings in Setup menu.

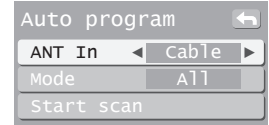
**1**  Press to select "Auto program".

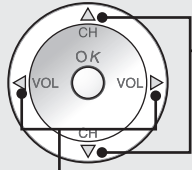
Press to display Auto program screen.



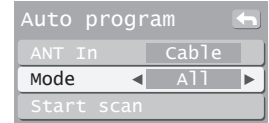
**2**  Press to select "ANT In".

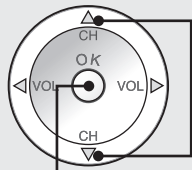
Press to select "Cable" or "Antenna".



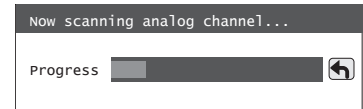
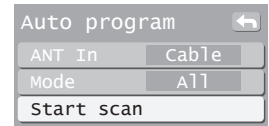
**3**  Press to select Mode.

Press to select "All" or "Analog".



**4**  Press to select "Start scan".

Press to start. Channels available for reception will be set automatically.

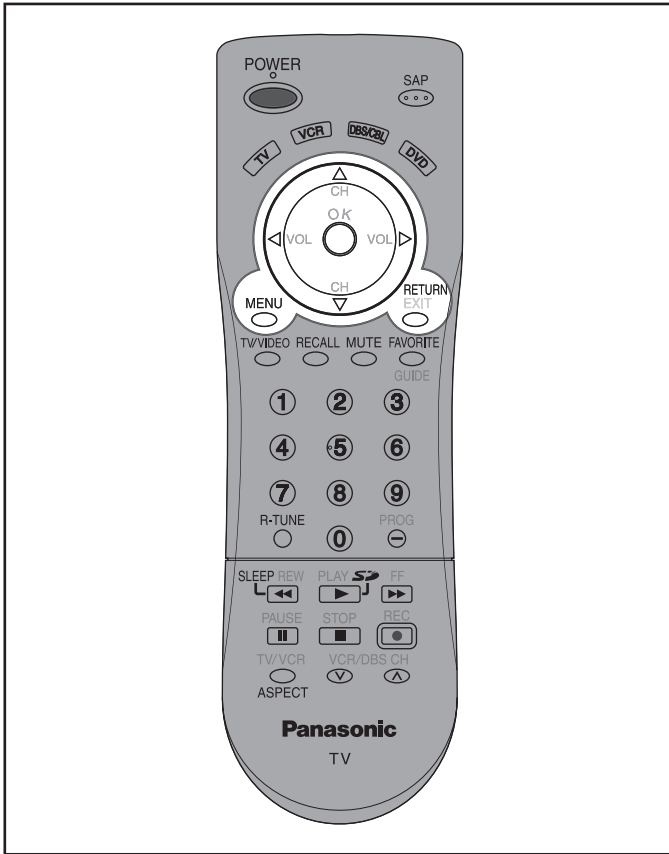


**5** After Auto program is complete, the unit will return to Manual program mode. To place the channels that were located by auto scan in memory, move the cursor to "Apply" and press OK. (p. 30-31) If OK is not pressed after selecting APPLY, the channels will not be memorized.

#### Notes:

- After "Auto program" is completed the unit tunes to the first channel found during "Auto program".
- If setup is incomplete, check connection of Antenna/Cable to the RF IN Terminal, then try "Auto program" again. (p. 29)
- "Auto program" must be done when you select the input signal for the first time or whenever you change the antenna configuration.
- Depending on conditions, "Auto program" may take a while.

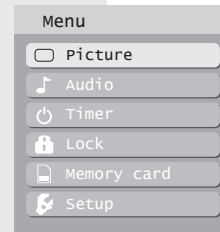
# Basic Menu Navigation



## Button operation during Menu display (Menu navigation)

### Return to Main Menu.

Press to display Main menu.



(PC input menu)



### Note:

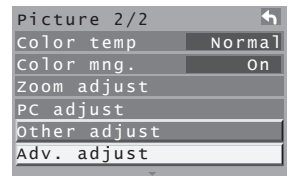
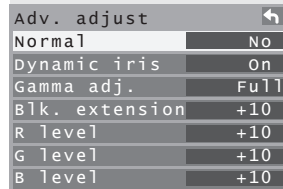
- While Main Menu (only) is displayed, pressing MENU will exit the menu screen.

### Return to previous level menu.

Press to return to previous level menu.

Example:

If RETURN is pressed from Adv. adjust Menu:

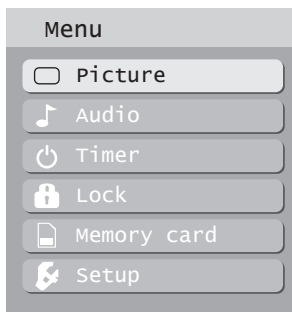


### Return to normal picture.

Press to exit menu.



Pressing MENU displays the Main Menu screen.



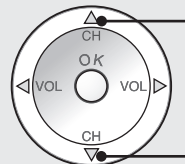
(PC input menu)



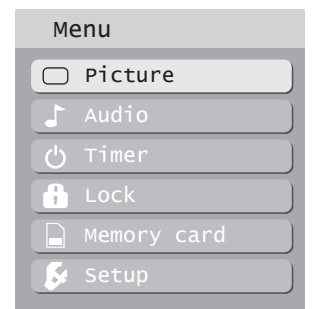
Depending on the signal being input, some items may or may not be adjustable and some functions may or may not be available.

## Example of a procedure

1

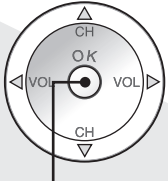


Press to select the desired icon.





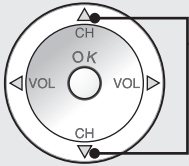
2



Press to enter the menu.

Picture 1/2	
Normal	No
Pic. mode	Vivid
Picture	+10
Brightness	+10
Color	+10
Tint	+10
Sharpness	+10

3



Press to select desired menu item.

Picture 1/2	
Normal	No
Pic. mode	Vivid
Picture	+10
Brightness	+10
Color	+10
Tint	+10
Sharpness	+10

Next Icon

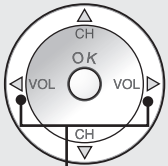


Picture 2/2	
Color temp	Normal
Color mng.	On
Zoom adjust	
PC adjust	
Other adjust	
Adv. adjust	

Sub Menu Field

A Next Icon means there are more menu items to view.

4

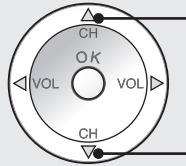


Press to adjust or set desired menu item.

Color	+5
-------	----

### Other Adjust sub-menu.

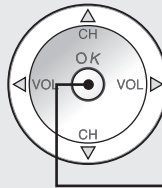
5



Press to select "Other adjust".

Picture 2/2	
Color temp	Normal
Color mng.	On
Zoom adjust	
PC adjust	
Other adjust	
Adv. adjust	

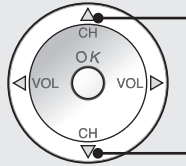
6



Press to access Other adjust sub-menu.

Other adjust	
Video NR	On
3D Y/C filter	On
Color matrix	SD
MPEG NR	On
Black level	Light
3D I/P	On
Color corr.	On

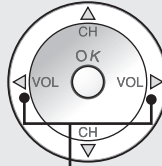
7



Press to select desired sub-menu items.

Other adjust	
Video NR	On
3D Y/C filter	On
Color matrix	SD
MPEG NR	On
Black level	Light
3D I/P	On
Color corr.	On

8



Press to adjust or set desired menu item.

Other adjust	
Video NR	On
3D Y/C filter	On
Color matrix	SD
MPEG NR	Off
Black level	Light
3D I/P	On
Color corr.	On

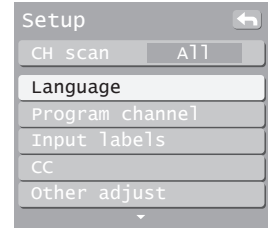
# Tuning channels



**2**

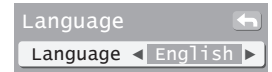
Press to select "Language".

Press to display Language screen.



**3**

Press to select "English," "Español" or "Français".



## Switching languages for display

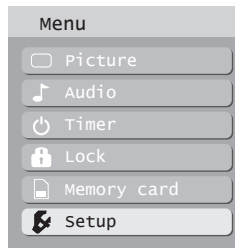
Allows you to select the language used for On Screen Displays.

Press MENU to display the Main Menu screen.

**1**

Press to select "Setup" icon.

Press to display the Setup menu.



**4**

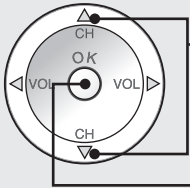
Press to go to previous screen. Or, select icon, then press OK for same results.

## Automatic program setting

**Automatically searches and adds receivable channels to memory.**

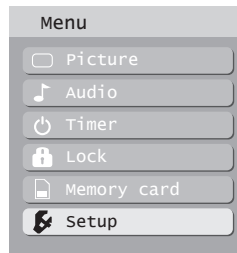
Press MENU to display the Main Menu screen.

**1** Press to select "Setup" icon.

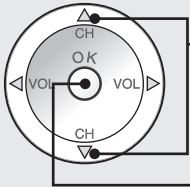


Press to select "Setup" icon.

Press to display the Setup menu.

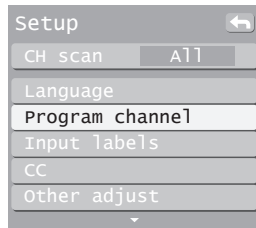


**2** Press to select "Program channel".

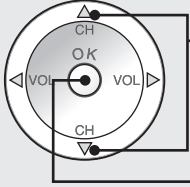


Press to select "Program channel".

Press to display the Program channel menu.

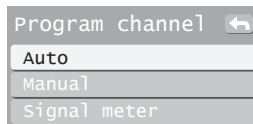


**3** Press to select "Auto".

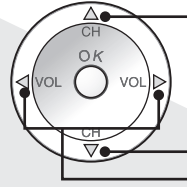


Press to select "Auto".

Press to enter the Auto menu.

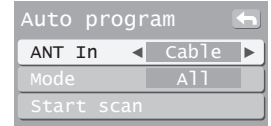


**4** Press to select "ANT In".

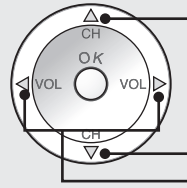


Press to select "ANT In".

Press to select "Antenna" or "Cable".

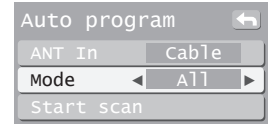


**5** Press to select "Mode".

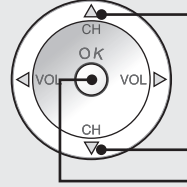


Press to select "Mode".

Press to select "All" or "Analog".

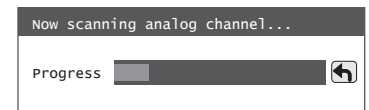


**6** Press to select "Start scan".



Press to select "Start scan".

Press to start Scan.



**7** After Auto program is complete, the unit will return to Manual program mode. To place the channels that were located by auto scan in memory, move the cursor to "Apply" and press OK. (p. 30-31)  
If OK is not pressed after selecting APPLY, the channels will not be memorized.

### Notes:

- Some channels with very weak signals may be locked into memory. If desired, these channels can be deleted manually using the "Manual program setting". (p. 30)
- "Auto program" must be done when you select the input signal for the first time or whenever you change the antenna configuration.

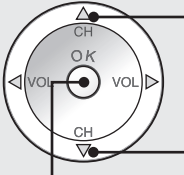
# Tuning channels (continued)

## Manual program setting

Use this procedure when changing setting of receiving channels or changing the channel display. Also, use to add or delete channels from channel list manually.

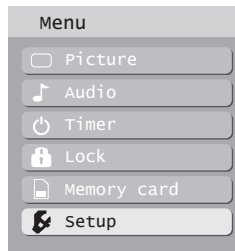
Press MENU to display the Main Menu screen.

**1**

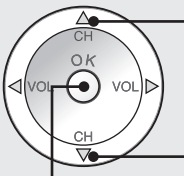


Press to select "Setup" icon.

Press to display the Setup menu.

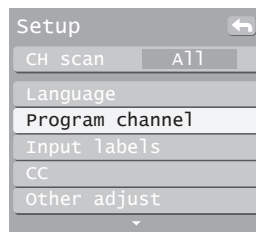


**2**

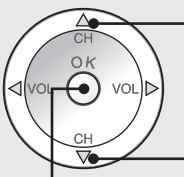


Press to select "Program channel".

Press to display the Program channel menu.

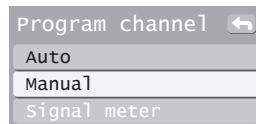


**3**



Press to select "Manual".

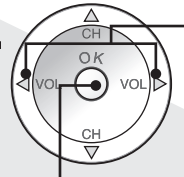
Press to enter the Manual program screen.



**Note:**

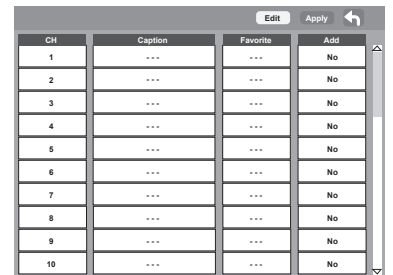
• If Lock (p. 43) has been set, you must enter your password to display the Manual Program screen.

**4**



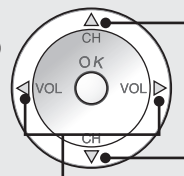
Press to select "Edit".

Press to enter the edit mode.



CH	Caption	Favorite	Add
1	---	---	No
2	---	---	No
3	---	---	No
4	---	---	No
5	---	---	No
6	---	---	No
7	---	---	No
8	---	---	No
9	---	---	No
10	---	---	No

**5**



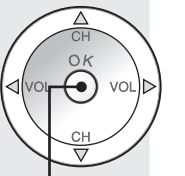
Press to select the desired preset channel line.

Press to select edit area. "CH," "Caption," "Favorite," "Add".

■ **Edit (Caption)**

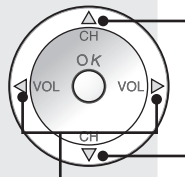
When a preset Caption has been entered.

**1**



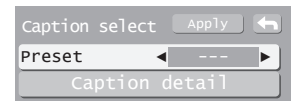
Press to enter the Caption select screen.

**2**

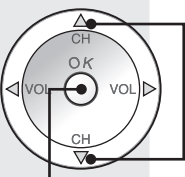


Press to select "Preset".

Press to select Broadcast station.



**3**

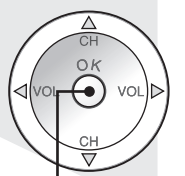


Press to move cursor to "Apply".

Press to enter the Caption.

When selecting a desired Caption manually.

**1**



Press to enter the Caption select screen.

**2**

Press to select "Caption detail".

Press to display the Caption input screen.

**3**

Press to move cursor to "Caption".

Press to enter input field.

**4**

Press to select the character to input/change.

Press to move to the character to input/change.

**5**

Press to enter you selection.

**6**

Press to move cursor to "Apply".

Press to enter the Caption.

■ **Edit (Favorite)**

**1**

Press to enter the Favorite screen.

**2**

Press to select "Favorite".

Press to select Favorite number.



**3**

Press to move cursor to "Apply".

Press to enter Favorite and return to Edit screen.

■ **Edit (Add)**

Setting of register/delete in Program channel.

Press to select "Yes" or "No".

■ **Preview (CH)**

You can display a program by selecting it in the small window at the top left of the screen.

- This preview only appears if a channel was added by selecting "Yes."

Press to display the selected program.

**6** RETURN EXIT

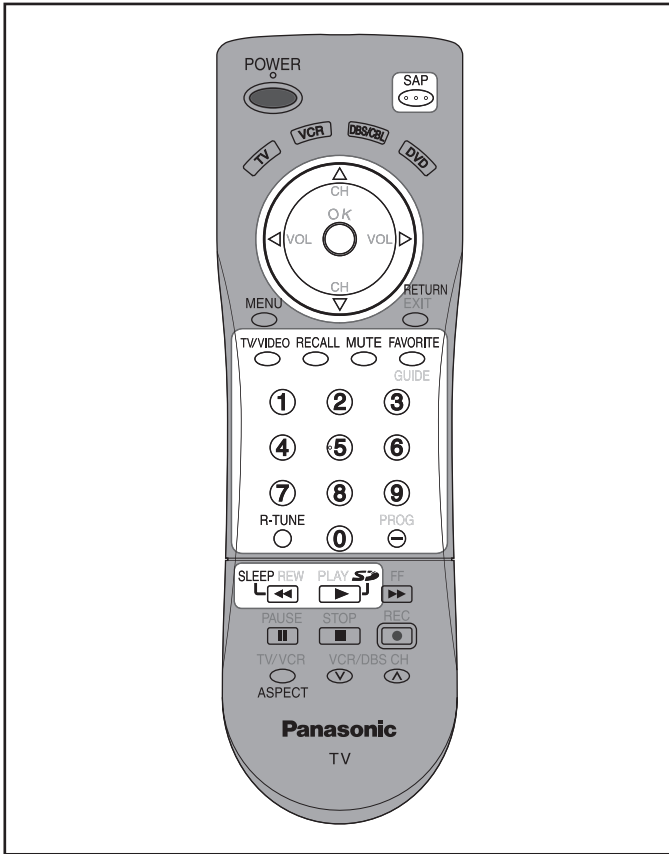
Press to move cursor to "Apply".

CH	Caption	Favorite	Add
1	---	---	No
2	ABC	2	Yes
3	---	---	No
4	---	---	No
5	---	---	No
6	---	---	No
7	---	---	No
8	---	---	No
9	---	---	No
10	---	---	No

**7**

Press to enter your program.

# Projection Display operation



(For models PT-52LCX66/ PT-56LCX66/PT-61LCX66) (For models PT-52LCX16/ PT-56LCX16/PT-61LCX16)

Input select
[1] TV
[2] Component 1
[3] Component 2
[4] HDMI
[5] Video 1
[6] Video 2
[7] Video 3
[8] PC

Input select
[1] TV
[2] Component 1
[3] Component 2
[4] HDMI 1
[5] HDMI 2
[6] Video 1
[7] Video 2
[8] Video 3
[9] PC

<b>Component 1</b>	Signal of source connected to COMPONENT VIDEO INPUT 1 is displayed.
<b>Component 2</b>	Signal of source connected to COMPONENT VIDEO INPUT 2 is displayed.
<b>HDMI*1</b>	Signal of source connected to HDMI IN is displayed.
<b>HDMI 1*2</b>	Signal of source connected to HDMI IN 1 is displayed.
<b>HDMI 2*2</b>	Signal of source connected to HDMI IN 2 is displayed.
<b>Video 1</b>	Signal of source connected to INPUT 1 is displayed.
<b>Video 2</b>	Signal of source connected to INPUT 2 is displayed.
<b>Video 3</b>	Signal of source connected to INPUT 3 is displayed.
<b>PC</b>	Signal of source connected to PC IN is displayed.

\*1 For models PT-52LCX66/PT-56LCX66/PT-61LCX66

\*2 For models PT-52LCX16/PT-56LCX16/PT-61LCX16

## Note:

- If SKIP is set as the Input Label setting, the mode will not be changed. (p. 53)

## ■ Card input mode (Photo Viewer) is selected.



Press to display Photo Viewer mode.

<b>Photo (Photo Viewer)</b>	Signal of source connected to CARD SLOT is displayed.
-----------------------------	---

## Selecting Input Mode

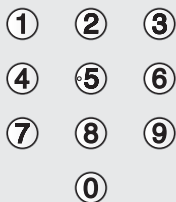
### 1 TV/VIDEO



Press to display the Input select menu.

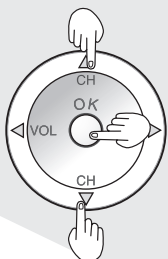
- Pressing TV/VIDEO while viewing PC input will place unit directly into TV input mode.

### 2



Press corresponding NUMBER keys on the Remote Control to select the input of your choice.

Or



Press to select the input of your choice, then press "OK".

- If, during selection, no action is taken for several seconds, the Input selection menu is exited and the current input is automatically selected.

## Rapid Tuning

Switches between the current and last channel or input modes.

R-TUNE



Press to switch to previously viewed channel or input modes.

## Note:

- When Photo Viewer (p. 47) is used, Rapid Tuning is not available.



## Using the CH/VOL Button

### Select desired channel:

Press CH ▲▼ or NUMBER keys.

### Adjust to desired volume level:

Press VOL ► or VOL ◀.

#### Notes:

- The channel number and volume level are stored even after the unit is turned off.
- Power consumption can be reduced if the volume level is lowered.

## Channel and Program Tuning

Channel and Program tuning in digital television differs from conventional television. With DTV, many programs can exist within a single 6 MHz channel. These channels behave as sub-channels within a single channel. When tuning to a digital channel, the unit will also tune to a program and will indicate the channel and program in the on-screen Channel Banner display.

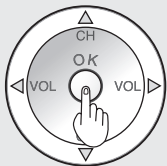
In order to select channels properly, Auto program must be performed. (p. 29)

Follow the procedure below to directly enter the channel number using the NUMBER keys on the Remote Control.

### Select analog channel

- Press the NUMBER keys on the Remote Control to enter the Channel number. Press OK.
  - The following is an example of tuning to channel 15.

### Direct Tuning Example



Step	Action	Channel Banner Display
1	Press 1	1
2	Press 5	15
3	Press OK	15

#### Note:

- If, during channel selection, no action is taken for several seconds, the Channel Banner is exited and the currently input channel is automatically selected.

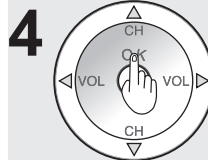
### Select digital channel

- If tuning a digital channel and your channel contains more than one program, press PROG and enter the program (1, 2, 3 etc.) using the NUMBER keys. Press OK. The following is an example of tuning to channel 15-1.



### Direct Tuning Example

Step	Action	Channel Banner Display
1	Press 1	1
2	Press 5	15
3	Press -	15-
4	Press 1	15-1
5	Press OK	15-1



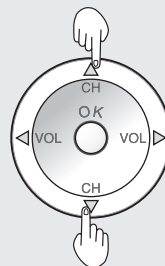
#### Note:

- If, during channel selection, no action is taken for several seconds, the Channel Banner is exited and the currently input channel is automatically selected.

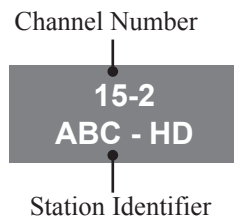
## Unit Status display

Press the Channel ▲▼ or RECALL button, except when the MENU screen is displayed, to display current unit status information.

### Channel Banner: Minimized



Press CH ▲▼ to minimize the displayed channel banner. It will display the channel number, and the station identification (if available).



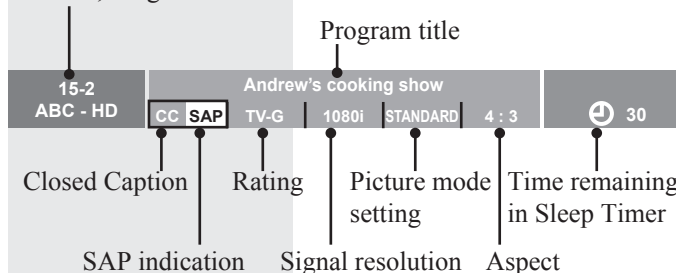
### Channel Banner: Maximized

#### RECALL



Press RECALL to maximize the displayed channel banner.

Channel, Program and Station identifier



# Projection Display operation (continued)

## Audio Mute

Press MUTE to instantly mute the sound. Press again to restore the previous sound level.



Press this button to mute the sound. Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

### Note:

- The audio output from AV OUT is not muted.

## Favorite Feature

This feature lets you add channels to or delete channels from the Favorite channel list.

### Set Favorite Feature

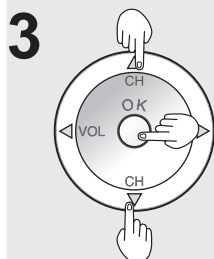
**1** Display the channel to be placed on the Favorites list.



Hold down FAVORITE for several seconds.

- Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit). Pressing ◀▶ also changes the page.

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



Press ▲▼ to highlight a position on the list.

Then, press OK to memorize the displayed CH in that position.

- You can also use the NUMBER keys (1-9 and 0) to select the recorded list numbers (1-9 and 0). By doing so, the numbers will be directly recorded without having to press the OK key.

Setting 1/3	
[1]	26-1
[2]	
[3]	
[4]	
[5]	
[6]	
[7]	
[8]	
[9]	
[0]	

### ■ To delete a favorite channel

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

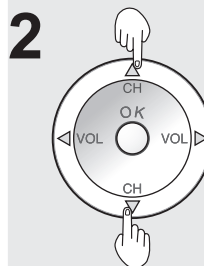
## Use Favorite Feature



Press FAVORITE.

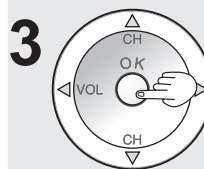
- Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit). Pressing ◀▶ also changes the page.

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



Press ▲▼ or a NUMBER keys (1-9 and 0) to highlight a channel on the list.

- Selecting a channel number from the list with the NUMBER keys will display the channel directly.



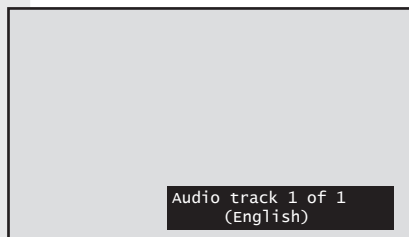
Press OK to display the highlighted channel.

## Select Audio Mode for TV Viewing

### Digital mode



Press SAP to select the next audio track (if available) when receiving a digital channel.

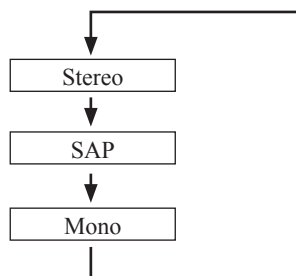


### Analog mode



Press SAP button to select the desired audio mode as described below.  
(Arrow shows selection.)

- Each press of SAP button will change the audio mode as shown below.
- "SAP" is selected with first press of SAP button.



### Receivable Broadcast Types

The following are possible broadcast types with their accompanying on-screen displays. The signal being received is indicated with a red text while the selected audio mode is yellow background.

#### MTS Stereo and SAP broadcast

Multi-channel Television Sound Stereo (main language) and Secondary Audio Program (sub language) broadcasts are both being received simultaneously. Select the Stereo or SAP audio mode.

#### MTS Stereo broadcast

Multi-channel Television Sound Stereo broadcast. Select Stereo audio mode.

- If stereo broadcast is weak and the display flickers, select Mono audio mode for possibly better results.

#### SAP broadcast

Secondary Audio Program (sub language.) Select SAP audio mode for the sub language.

#### Mono broadcast

Normal monaural sound broadcast.

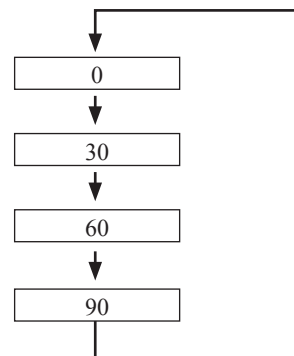
## Sleep Timer Feature

Switches the unit OFF in a preset amount of time from 0 to 90 minutes in 30 minute intervals.



Press SLEEP repeatedly to select the desired time.

- To cancel, press SLEEP repeatedly until 0 appears. Also, turning Power OFF while setting SLEEP will reset to zero.



### Notes:

- Pressing RECALL with sleep timer set displays remaining time. This can also be done by pressing SLEEP. If you continue to press SLEEP, the sleep time setting mode will be entered.
- Sleep time may also be set from the Menu screen. (p. 42).
- The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to turn off.

# ASPECT Controls



## Notes:

- When input mode is CARD, the aspect is set to 4:3 and cannot be changed.
- If the mode selected does not match the aspect ratio of the input signal, the original picture quality may be affected.
- If using this Projection Display in places, such as cafes or hotels, with the aim of displaying programs for a commercial purpose or for public presentation, please note that by using the aspect ratio (16:9) selection function to change the aspect ratio, you may be infringing on the rights of the original copyright owner of that program under copyright protection laws.
- If a 4:3 picture is projected in wide screen, distortion may occur around the edges so that part of the picture may no longer be visible. We recommend viewing in 4:3 mode so you can enjoy the picture as it was intended to be seen.

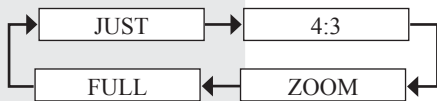
Mode	Picture	Explanation
JUST		JUST mode will display a 4:3 picture at maximum size, but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
4:3		4:3 mode displays a 4:3 picture at the standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL mode displays the picture at maximum size, but with a slightly elongated appearance.
H-FILL		H-FILL mode enlarges a 4:3 image horizontally to the sides of the screen. The side edges of the image are cut off.

## Changing the Aspect Mode

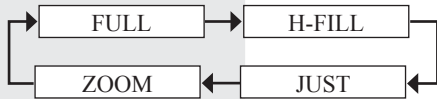
Lets you choose the aspect mode based on the format of the received signal and your preference.



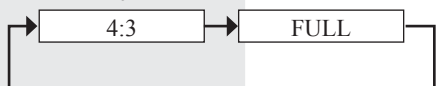
The aspect mode changes each time ASPECT is pressed.



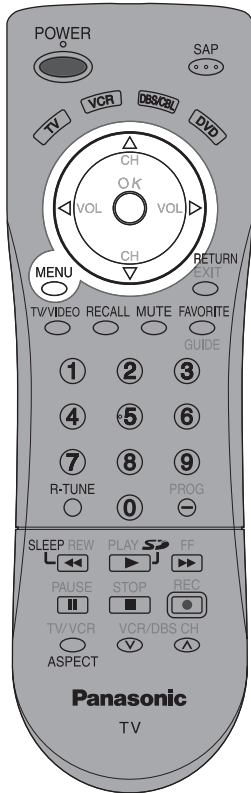
- When an HD signal (1080i/720p) is received, the mode switches between FULL, H-FILL, JUST, and ZOOM.



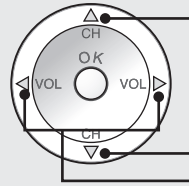
- During PC input, the mode switches between 4:3 and FULL only.



# Picture Adjustments

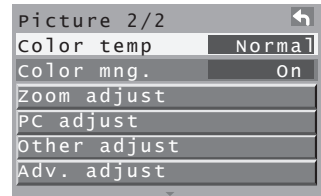
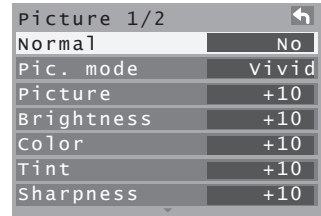


## Normal / Picture / Brightness / Color / Tint / Sharpness / Color temp

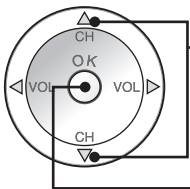


Press to select each item.

Press to adjust each item.

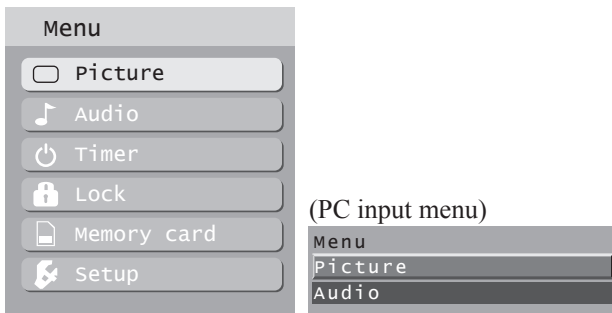


Press MENU to display the Main Menu screen.



Press to select "Picture" icon.

Press to display the Picture menu.



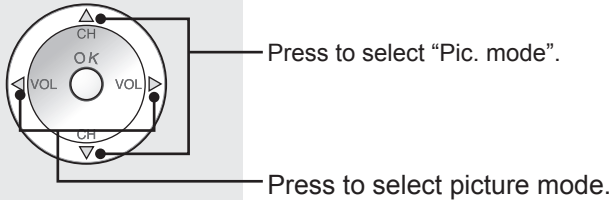
Picture Menu is inaccessible when no signal is present.

Item	Explanations
Normal	Resets all picture adjustments to factory default settings.
Picture	Adjusts white areas of picture.
Brightness	Adjusts dark areas of picture.
Color	Adjusts desired color intensity.
Tint	Adjusts natural fresh tones.
Sharpness	Adjusts clarity of outline detail.
Color temp (Color temperature)	To increase or decrease Warm (red) and Cool (blue) colors to suit personal preferences.
Color mng. (Color management)	Color mng. On enhances green and blue color reproduction, especially outdoor scenes.

# Picture Adjustments (continued)

## Picture Mode

Lets you choose one of three pre-set Picture Modes that best suits the program to which you are viewing. Selecting this feature will also affect Color Temperature setting.

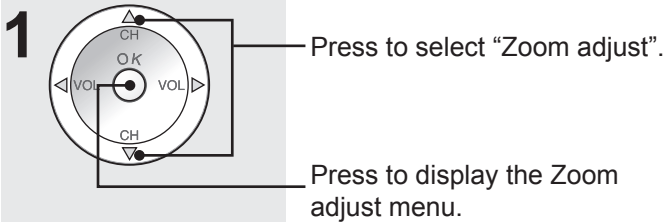


Picture 1/2	Normal	No
Pic. mode	Vivid	
Picture	+10	
Brightness	+10	
Color	+10	
Tint	+10	
Sharpness	+10	

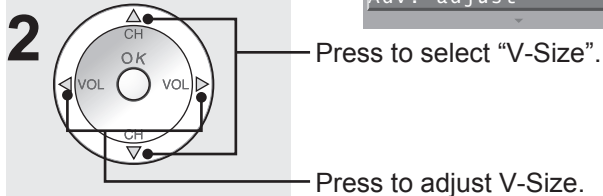
- Vivid - This is the default mode, It provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard - Recommended for normal viewing conditions with subdued room lighting.
- Cinema - Select this mode for watching movies in a darkened room. It provides a soft, film-like picture.

## Zoom Adjust

Adjust the Zoom position. It works when Aspect mode is Zoom.



Picture 2/2	Color temp	Normal
Color mng.	On	
Zoom adjust		
PC adjust		
Other adjust		
Adv. adjust		

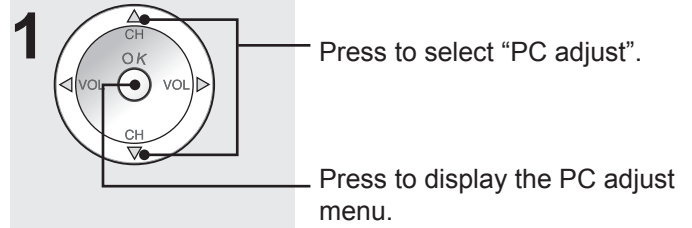


Zoom adjust	V-Size	10
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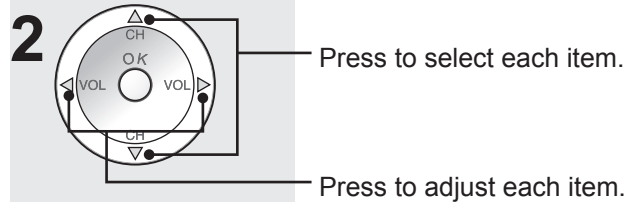
- V-Size - Adjust the vertical size.

## PC Adjust

You can adjust the picture when viewing a signal from a PC.



Picture 2/2	Color temp	Normal
Color mng.	On	
Zoom adjust		
PC adjust		
Other adjust		
Adv. adjust		



PC adjust	Normal	No
Dot clock	+10	
H-Position	+10	
V-Position	+10	
Clock phase	+10	
H-Frequency	48.4kHz	
V-Frequency	60.1Hz	

Item	Explanations
Normal	Resets all picture adjustments to factory default settings.
Dot clock	Adjusts horizontal size.
H-Position	Adjusts horizontal position.
V-Position	Adjusts vertical position
Clock phase	Adjust in order to remove any picture interference or contour blurring which may occur in computer images.
H-Frequency/ V-Frequency	Displays the frequencies of the PC signal currently being adjusted. Displays the H (Horizontal) / V (Vertical) frequencies. Display range: Horizontal 15-110 kHz Vertical 48 - 120 Hz

### Note:

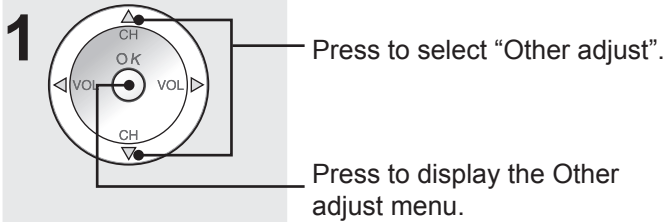
- This function is available only when the signal being viewed is from a PC.



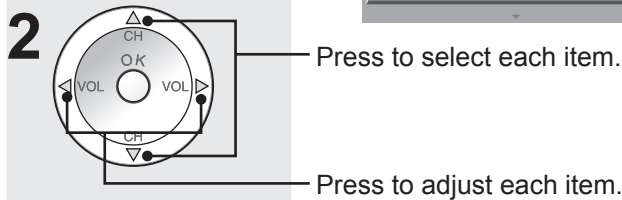
Depending on the signal being input, some menu items may or may not be adjustable and some functions may or may not be available.

## Other Adjust

Other detailed picture adjustments can be made.



Picture 2/2	
Color temp	Normal
Color mng.	On
Zoom adjust	
PC adjust	
Other adjust	
Adv. adjust	



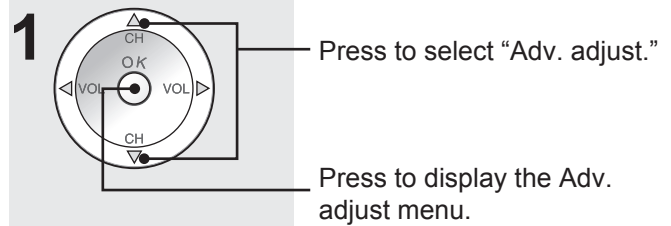
Other adjust	
Video NR	On
3D Y/C filter	On
Color matrix	SD
MPEG NR	On
Black level	Light
3D I/P	On
Color corr.	On

Item	Explanations
Video NR	Reduces noise, commonly called snow. Leave off when receiving a strong signal.
3D Y/C filter	Minimizes noise and cross-color in the picture.
Color matrix	Select SD or HD. <ul style="list-style-type: none"> <li>SD : Color matrix is set same as a normal TV system (NTSC).</li> <li>HD : Color matrix is set same as a High-Definition system (ATSC).</li> </ul> With a 480p signal from equipment connected to COMPONENT VIDEO INPUT (Y, PB, PR) or HDMI INPUT terminals or from the unit's DTV tuner, you can select SD or HD color matrix to display the most natural color. <b>Notes:</b> <ul style="list-style-type: none"> <li>This feature is available only with 480p signals.</li> <li>The default setting with HDTV signals (720p or 1080i) is HD color matrix.</li> <li>The default setting with NTSC signals (480i) is SD color matrix.</li> </ul>
MPEG NR	Unique noise to DVD, STB, etc. will be reduced.
Black level	Select Light or Dark [Dark : Analog channel/ VIDEO, Light : 480i/480p/720p/1080i] Invalid for Digital channel, PC and Photo Viewer.

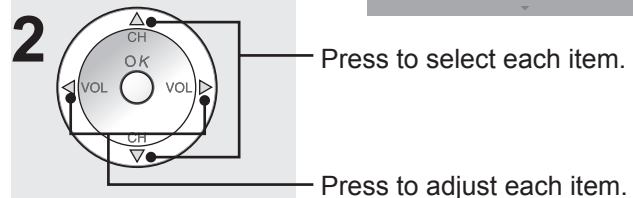
Item	Explanations
3D I/P	Film media (taken at 24 frames per second) is faithfully reproduced on the unit. On: Recordings created at 24 frames per second are shown in higher quality. Off: Set to Off if picture appears unnatural.
Color corr.	With HDMI connection, depending on the signal, the picture may be displayed with unnatural colors (as if red and blue are reversed). Correct by setting the Color corr. to "On."

## Advanced Adjust

Highly-detailed adjustments can be made.



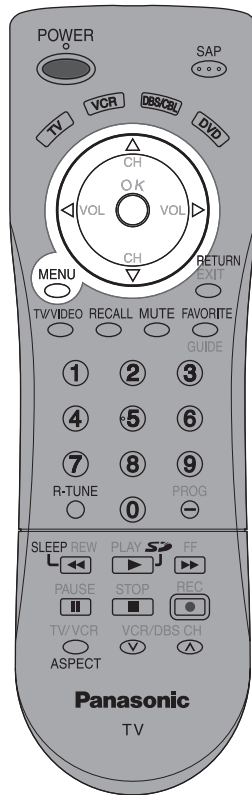
Picture 2/2	
Color temp	Normal
Color mng.	On
Zoom adjust	
PC adjust	
Other adjust	
Adv. adjust	



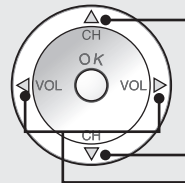
Adv. adjust	
Normal	No
Dynamic iris	On
Gamma adj.	Full
Blk. extension	+10
R level	+10
G level	+10
B level	+10

Item	Explanations
Normal	Resets all picture adjustments to factory default settings.
Dynamic iris	The amount of light is controlled to project the images with high contrast.
Gamma adj.	The median brightness level of the picture can be set.
Blk. extension	You can adjust the gray level of black for areas of the screen that are darker than the median level.
R level	Adjusts the red component.
G level	Adjusts the green component.
B level	Adjusts the blue component.

# Audio Adjustments

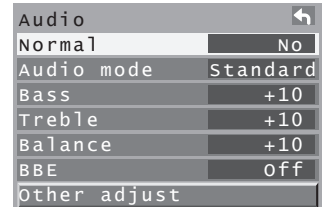


## Normal / Bass / Treble / Balance



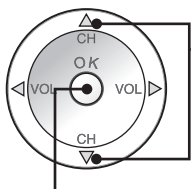
Press to select each item.

Press to adjust each item.



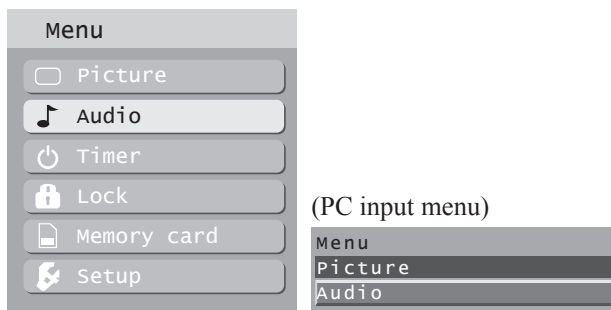
Item	Explanations
Normal	Reset Bass, Treble and Balance adjustments to factory default settings.
Bass	Increase or decrease the bass response.
Treble	Increase or decrease the treble response.
Balance	Emphasize the left / right speaker volume.

Press MENU to display the Main Menu screen.



Press to select "Audio" icon.

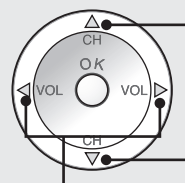
Press to display the Audio menu.



If the unit is set to AI sound "On," BBE "On," or "VIVA 3D," only the Balance item can be adjusted in the Audio menu.

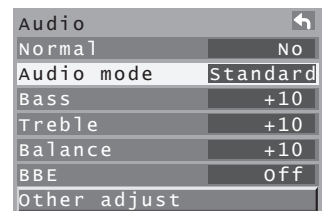
## Audio Mode

Lets you choose one of three pre-set Audio Modes that best suits the program to which you are listening.



Press to select "Audio mode".

Press to select audio mode.



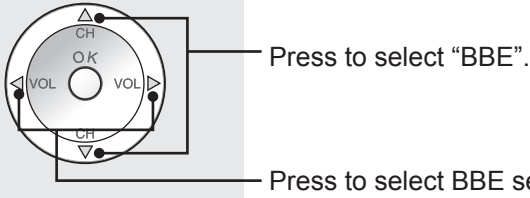
- Standard Emits the original sound.
- Dynamic Sound suited to music or movie.
- Speech Sound suited to dialogue.



Depending on the signal being input, some menu items may or may not be adjustable and some functions may or may not be available.

## BBE

You can hear a deeper, 3-D sound effect using just the unit's two front speakers.

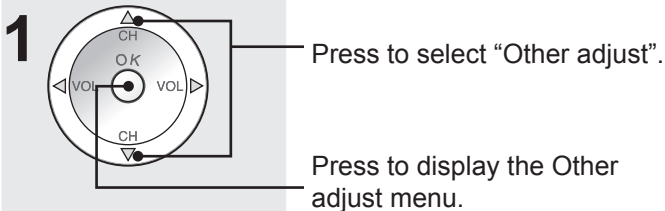


Audio	←
Normal	No
Audio mode	Standard
Bass	+10
Treble	+10
Balance	+10
BBE	Off
other adjust	

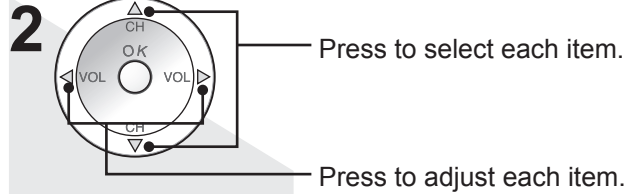
- VIVA 3D BBE VIVA HD 3D - BBE VIVA HD 3D (High Definition 3D) Sound provides musically accurate natural 3D image with Hi-Fi sound. The clarity of the sound is improved by BBE while the width, depth and height of sound image are expanded by BBE's proprietary 3D sound process. BBE VIVA HD3D Sound is compatible with all TV programs including news, music, dramas, movies, sports and electronic games.
- On BBE - BBE High Definition Sound is a proprietary audio enhancement technology that compensates for phase and amplitude distortion inherent in the nature of loudspeaker physics. BBE works like an automatic focus in a camera, bringing incredible clarity, depth and detail to the sound.
- Off Sound is normal.

## Other Adjust

Other detailed audio adjustments can be made.



Audio	←
Normal	No
Audio Mode	Standard
Bass	+10
Treble	+10
Balance	+10
BBE	Off
other Adjust	



(For models PT-52LCX66/ PT-56LCX66/PT-61LCX66) (For models PT-52LCX16/ PT-56LCX16/PT-61LCX16)

other adjust	←
AI sound	On
Speakers	On
HDMI in	Auto
Audio leveler	+7

other adjust	←
AI sound	On
Speakers	On
HDMI1 in	Auto
HDMI2 in	Auto
Audio leveler	+7

Item	Explanations
AI sound	Equalize overall volume levels across all channels. (AI sound is not available in VIDEO mode).
Speakers	This feature is used to turn TV speakers On or Off. <ul style="list-style-type: none"> <li>• On - TV speakers operate normally.</li> <li>• Off - TV speakers off.</li> </ul>
HDMI in*1 or HDMI1 in/ HDMI2 in*2	Perform input switching of analog audio input and digital audio input when using the HDMI terminal. <p>Auto : Automatically performs digital/ analog input switching according to the input signal type.</p> <p>Digital : Forces use of digital audio input signal transmitted via the HDMI terminal.</p> <p>Analog : Forces use of analog audio input signal transmitted via separate RCA terminals.</p>
Audio leveler	The audio leveler monitors the difference in audio levels between input signals from external equipment and minimizes the change in output volume that could occur when switching input signals. <ul style="list-style-type: none"> <li>• "Audio leveler" is not available when "Speakers" is set to "Off".</li> </ul>

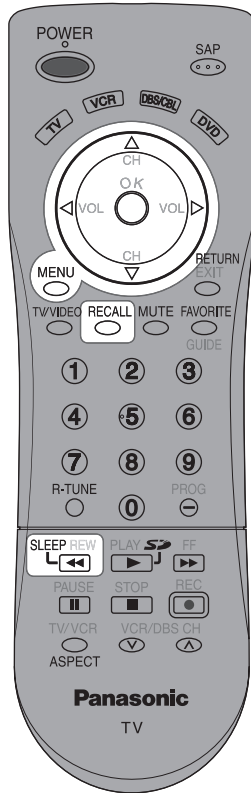
\*1 For models PT-52LCX66/PT-56LCX66/PT-61LCX66

\*2 For models PT-52LCX16/PT-56LCX16/PT-61LCX16

### Notes:

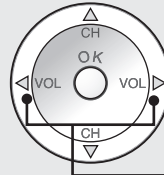
- Sound signals are output from the rear AUDIO OUT and DIGITAL AUDIO OUT terminal. (p. 17-18)
- When volume is adjusted or the MUTE button is pressed from the Remote Control, a message will be displayed.

# Sleep Timer Feature



## Set Sleep Timer

Press to set unit to shut itself off after a preselected amount of time.



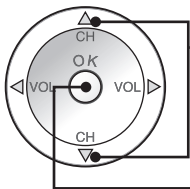
Press to select "0," "30," "60," or "90".



### Notes:

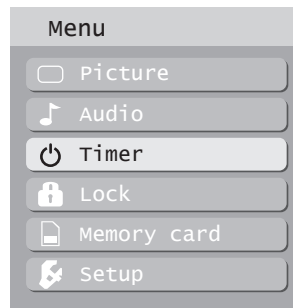
- Pressing the RECALL button with sleep timer set displays remaining time.
- The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to turn off.

Press MENU to display the Main Menu screen.



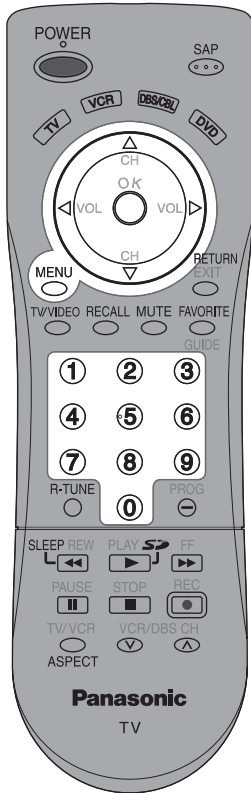
Press to select "Timer" icon.

Press to display Timer menu.

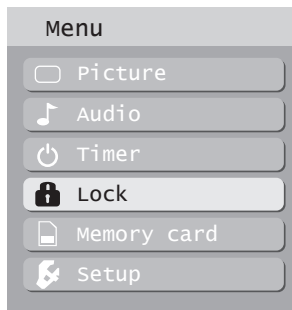
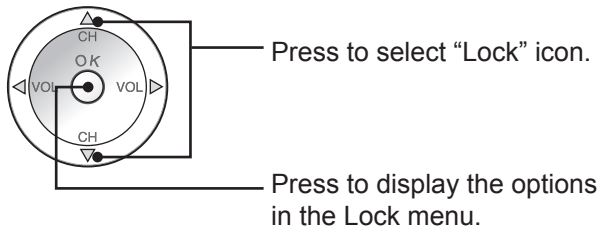


Sleep time may be set using the SLEEP button.  
(p. 35)

# Lock Feature



Press MENU to display the Main Menu screen.



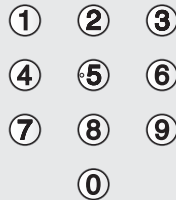
You will be asked to enter your password each time you display the Lock menu.

This Projection Display incorporates V-CHIP technology to block the viewing of movies and television programs according to the rating category. There are four (4) Content Advisory Categories: MPAA (Motion Picture Association of America), TV Parental Guidelines Ratings, Canadian English Language Ratings and Canadian French Language Ratings. These categories are used as guidelines for blocking the programs. The default mode for the Lock category is the Unlocked state. In this state, you can surf the various categories of the Lock menu. After you have created a password, you are prompted to enter it before you can make any changes in the Lock menu.

## Enter Secret Code

A 4-digit code must be entered to view a blocked program or change rating settings.

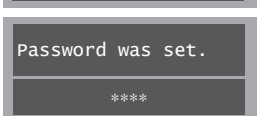
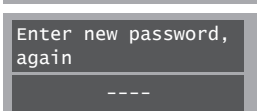
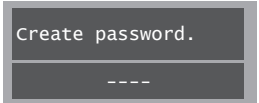
### ■ Create Secret Code (First Time Setting)



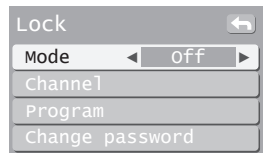
Press NUMBER keys to enter your secret code.

#### Note:

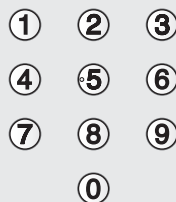
- Use a code that is easy to remember and record it in a safe place.



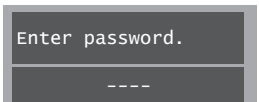
Upon entering the 4 digit code, the Lock menu is displayed.



### ■ Enter Secret Code



Press NUMBER keys to enter your secret code.



Upon entering the 4 digit code, the Lock menu is displayed.

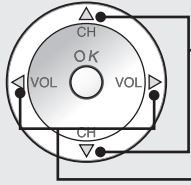
#### Notes:

- Once ratings are set, restricted tapes or programs cannot be accessed unless the secret code is entered.
- **Do not forget your password.** If you have forgotten it, please contact a service center.

# Lock Feature (continued)

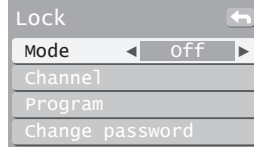
## Lock Set

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



Press to select "Mode".

Press to select the desired setting.

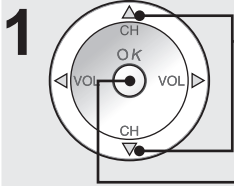


To prevent video games, VCR tapes and all channels and video modes from being viewed. The available modes are:

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

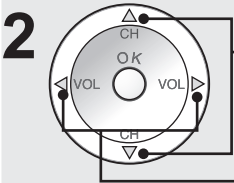
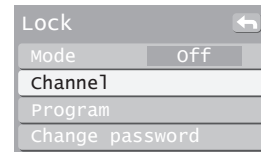
## Channel Lock (Block channel selection)

Select up to 7 (1-7) channels to be blocked out. These channels will be blocked out regardless of the program rating.



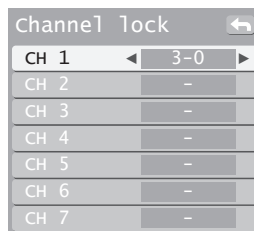
Press to select "Channel".

Press to display the Channel lock menu.



Press to select CH 1 - 7.

Press to select the desired Block channel.

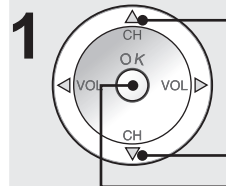


## Block program

This television incorporates V-Chip technology to block the viewing of movies and television programs according to the rating category. There are four (4) Content Advisory Categories: MPAA (Motion Picture Association of America), U.S.TV Program, Canadian English ratings and Canadian French ratings. These categories are used as guidelines for blocking programs.

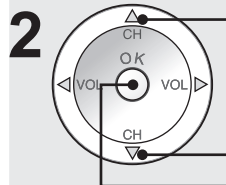
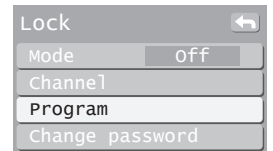
- The default mode for the Lock category is the Unlocked state.

## Rating level setting



Press to select "Program".

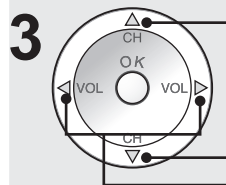
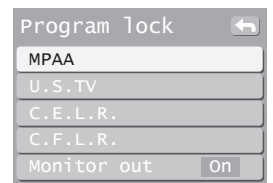
Press to enter Program lock menu.



Press to select "MPAA," "U.S.TV," "C.E.L.R." or "C.F.L.R."

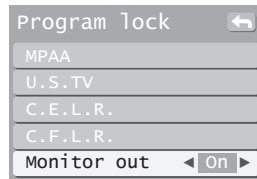
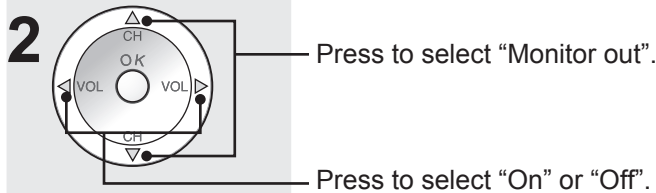
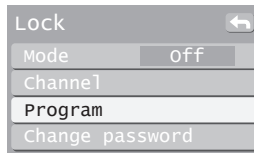
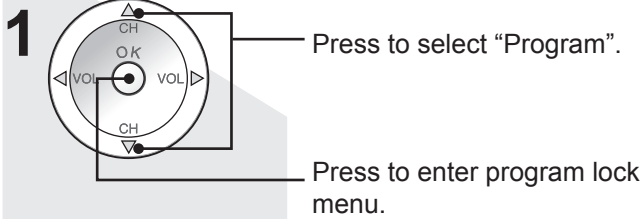
Press to enter program lock screen.

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



Press to highlight the desired rating level.

## Monitor out setting



- On: Turns on the monitor terminal output for programs that have been set to "Blocked."  
 Off: Turns off the monitor terminal output for programs that have been set to "Blocked."

### Notes:

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

## U.S. MOVIES RATINGS CHART (MPAA)

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

## U.S. TV PROGRAMS RATINGS CHART

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

Youth Age-based Ratings and Guidance Age-based Ratings. Some of these age-based ratings can also have content-based ratings, denoted as D (Dialog), L (Language), S (Sex) and V (Violence). The table below shows the age-based ratings selection.

Age-based Group	Age-based Ratings	Blocked Content Selections	Description
NR (Not Rated)	TV-NR	<ul style="list-style-type: none"> <li>• Viewable</li> <li>• Blocked</li> </ul>	Not Rated. See "Customer Caution" on page 46.
Youth	TV-Y	<ul style="list-style-type: none"> <li>• Viewable</li> <li>• Blocked</li> </ul>	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
	TV-Y7	<ul style="list-style-type: none"> <li>• FV (Fantasy Violence)</li> <li>• Viewable</li> <li>• Blocked</li> </ul>	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
Guidance	TV-G	<ul style="list-style-type: none"> <li>• Viewable</li> <li>• Blocked</li> </ul>	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	<ul style="list-style-type: none"> <li>• D,L,S,V (all selected)</li> <li>• Any combination of D, L, S, V</li> </ul>	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	<ul style="list-style-type: none"> <li>• D,L,S,V (all selected)</li> <li>• Any combination of D, L, S, V</li> </ul>	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	<ul style="list-style-type: none"> <li>• L,S,V (all selected)</li> <li>• Any combination of L, S, V</li> </ul>	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

FV : Fantasy/Cartoon Violence.  
 V : Violence  
 S : Sex  
 L : Offensive Language  
 D : Dialogue with sexual content.

# Lock Feature (continued)

## CANADIAN ENGLISH RATINGS CHART

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

## CANADIAN FRENCH RATINGS CHART

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

### Customer Caution

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

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

## Blocking Messages

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

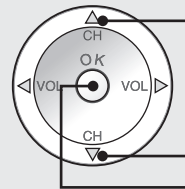
### Note:

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

Message	Possible cause
Game locked.	The TV/VIDEO button was pressed when the locked. Game lock had been selected.
Channel Locked.	Tuned to the designated channel when the Channel lock had been selected.
All locked.	Tuned to CH 3 or CH 4 when the Game lock had been selected. Lock all is selected.
Program locked.	Received program that exceeds the Block Program rating level.

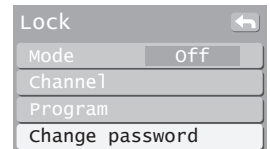
## Change password

1

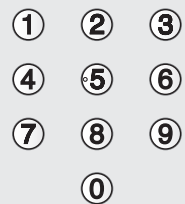


Press to select "Change password".

Press to enter the Input Password screen.

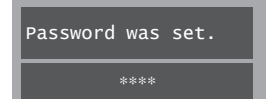
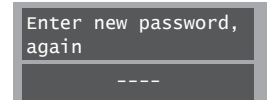
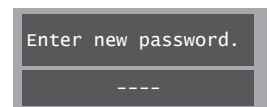


2



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

Enter a 4-digit password.



After entering your password for the first time, "Enter new password" will change to "Enter password".

### Notes:

- Use a code that is easy to remember and record it in a safe place.
- **Do not forget your password.** If you have forgotten it, please contact a service center.



# Photo Viewer

Still image data (JPEG) made with a digital camera or digital video camera can be played back using an SD Card.

## ⚠ WARNING

As with any small object, SD cards can be swallowed by young children. Do not allow children to handle the SD card.

## ⚠ CAUTION

1. Always insert card in the correct direction. Failure to do so may result in damage to the card and this unit.
2. The SD Card is precision devices. Do not subject them to excessive pressure or strong impacts.

### Card Data Protection

- Do not remove the card while it is being accessed.
- Do not touch the terminals on the back of the SD Card.
- Electrical interference, electrostatic discharges and malfunctions of the unit or card may all result in damage to the card or data loss. It is recommended that any important data is also backed up on a PC.
- Stored data should be periodically backed up as a protection against data corruption, data loss or device malfunction. Please note that our company shall not accept any liability for damage or loss of stored data.

### Data Format for Card Browsing

- Photo: Still images recorded with digital still cameras compatible with JPEG files of DCF\* and EXIF standards
- Data format: Baseline JPEG 160 × 120 - 2 560 × 1 920 pixels (Sub-sampling: 4:4:4, 4:4:2 or 4:2:0)
- Max. number of files: 9 999
- Image resolution: 8 × 8 to 5 120 × 3 840
- \* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard

### Notes:

- Some parts of an image may not be displayed or the image may be displayed on a smaller scale depending on the size of the image.
- Only JPEG images can be displayed on this unit.

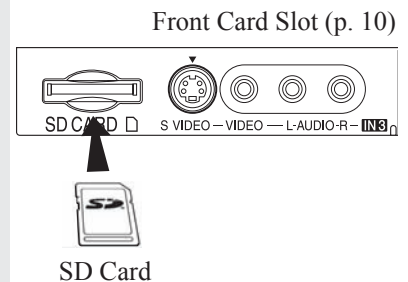
## Insert/Remove the Card

### ⚠ CAUTION

Do not remove the SD card while "Accessing" is being displayed on screen. Otherwise data may be lost or corrupted.

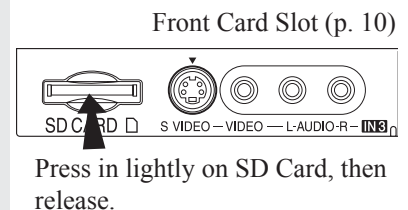
### Insert the Card

With the SD logo facing upward, insert the Card horizontally into the SD Card Slot. The card is secured when you hear a click.



### Remove the Card

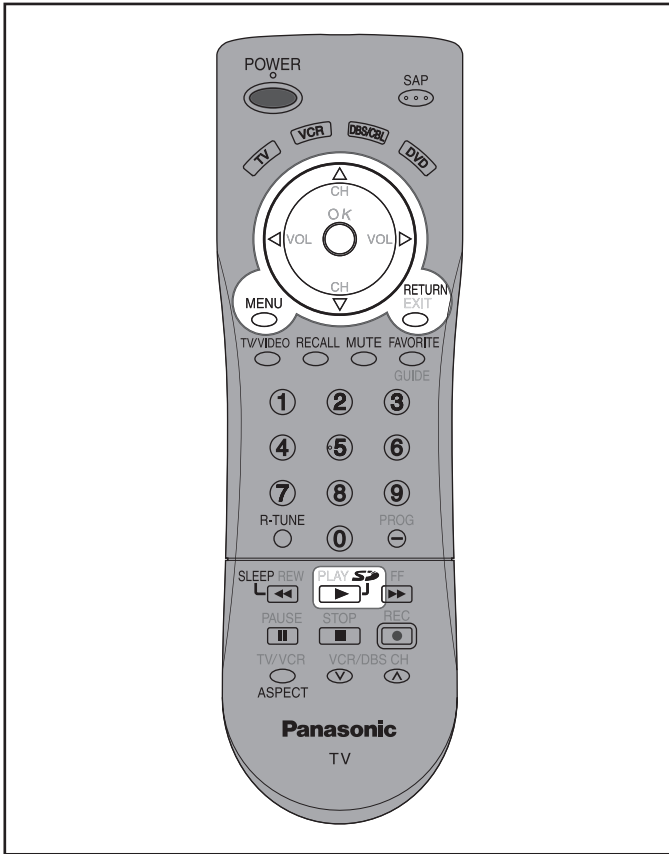
Gently press in on the Card and release slowly. Pull the Card from the slot.



### Notes:

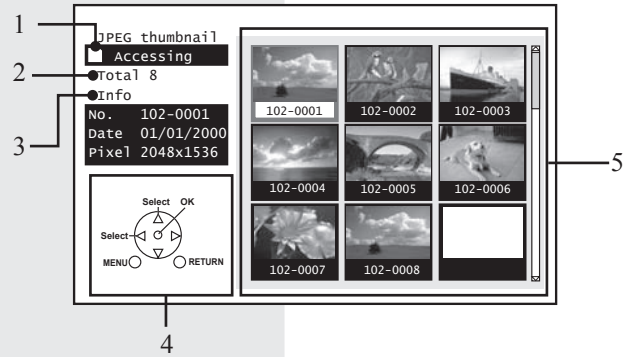
- Compliant card type (maximum capacity): SD Card (2 GB), Mini SD Card (1 GB) (requiring mini SD adaptor).
- Remove the Card carefully to prevent it from popping out of the slot too fast.

# Photo Viewer (continued)



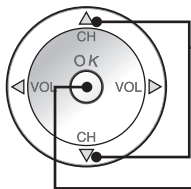
## JPEG thumbnail

The screen below is displayed automatically while a card is inserted. If “Is memory card in?” appears, check if a card is inserted. If not, turn the unit power off, correctly insert a card, then turn the unit back on. Now, place unit into Photo Viewer mode.



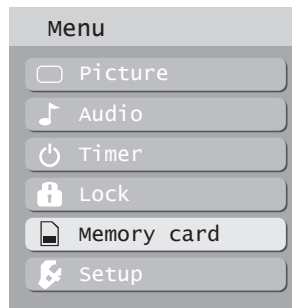
1	<b>ACCESS Indication</b>	“Accessing” is displayed while data is read. <b>Note:</b> • Proceed with all operations after “Accessing” has disappeared from the screen.
2	<b>Total</b>	Total number of JPEG images on the inserted card is displayed.
3	<b>Info</b>	Selected picture information is displayed. <b>No. :</b> Image number or file name is displayed. <b>Date :</b> Date of recording is displayed. <b>Pixel :</b> Display resolution is displayed. <b>Note:</b> • Depending on the JPEG type, Info contents may not be displayed correctly.
4	<b>Navigation Area</b>	Operational buttons are displayed as “GUI” (Graphical User Interface).
5	<b>Index Area</b>	JPEG images contained on the inserted card are displayed for viewing. <b>Notes:</b> • Only JPEG files can be displayed. • Up to 9 999 JPEG files can be displayed. • If images have duplicate numbers, none of the images will be displayed. • Depending on the JPEG type, it may not be displayed normally.

Press MENU to display the Main Menu screen.



Press to select “Memory card” icon.

Press to display the Photo Viewer.



The SD button may also be pressed for Photo Viewer mode. (p. 32)

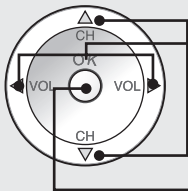


## Card Warning Messages

If there is a problem with the card or card data, the following messages will appear.

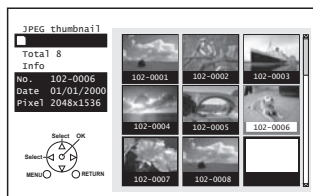
Message	Description
Is memory card in?	A card may not be inserted, or the card format may not be supported. (Use SD cards formatted in a digital camera.)
No file.	The card may not contain image data, or all images on the card may be incompatible.

## Index Area Operation



Press to select file.

Press to display full size file preview. (p. 51)



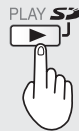
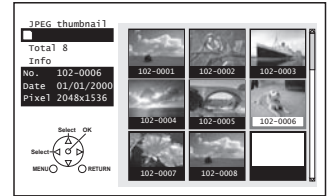
### Notes:

File names will not be displayed correctly if...

- More than 8 characters are used.
- Spaces and special symbols are used. Use care when changing file names.

## Exit Photo Viewer

Pressing SD while a JPEG thumbnail is displayed redisplay the last viewed input.



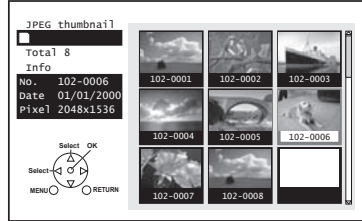
Press SD to exit Photo Viewer.

# Photo Viewer (continued)

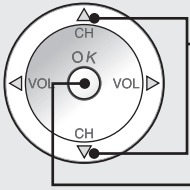
## Slide Show Mode

Press ▲▼◀▶ to move cursor to desired file in INDEX AREA.

Press OK to display file in full screen size.

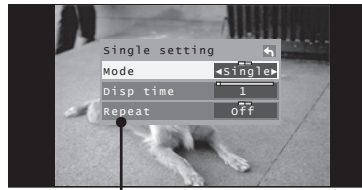


1



Press to select each item.

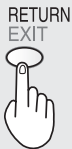
Press to set each item.



Single setting menu

<b>Mode</b>	Set to Single/Slide to view single images or perform a slide show.
<b>Disp time</b>	You can set how many seconds each image is displayed in Slide mode.
<b>Repeat</b>	Turn the slide show Repeat function On or Off.

2



Press to start slide show.

Example:  
If Display Mode is set to Slide, Disp time is set to 5 seconds, and Repeat is Off.



Displayed  
5 seconds

Displayed  
5 seconds

Stop

3 Press OK during a slide show to stop it. The sub-menu is displayed.

## Navigation Display

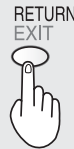
Pressing RECALL during Slide Show mode allows you to display or remove the Navigation Area.



Navigation Area

## Exit Slide Show mode

Pressing RETURN during Slide Show mode allows you to exit the mode.

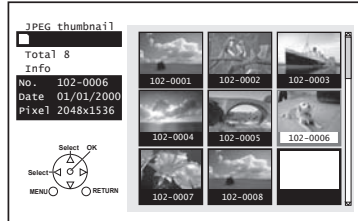


Press RETURN with Slide Show mode displayed to return to the Card Menu Screen.

## Single Play Mode

Press ▲▼◀▶ to move cursor to desired file in INDEX AREA.

Press OK to display file in full screen size.



SINGLE VIEW SCREEN

## Navigation Display

Pressing RECALL while in Single Play Mode displays or removes the Navigation Area screen.



Navigation Area

## Change image

Pressing the ▲▼ buttons changes the displayed image.

Press ▲ : The previous image is displayed.

Press ▼ : The next image is displayed.

## Rotate image

Pressing the ◀▶ buttons rotates the image 90° at a time.

Press ▶ : Each press right rotates image 90°.

Press ◀ : Each press left rotates image 90°.

### Note:

- Rotation settings are not written to the file and are canceled when Photo Viewer is exited.

## Picture Adjustment

When MENU is pressed, the Picture Adjust menu (p. 37) is displayed.

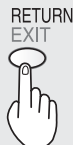
Picture Adjust menu



Pressing RETURN to exit Picture menu.

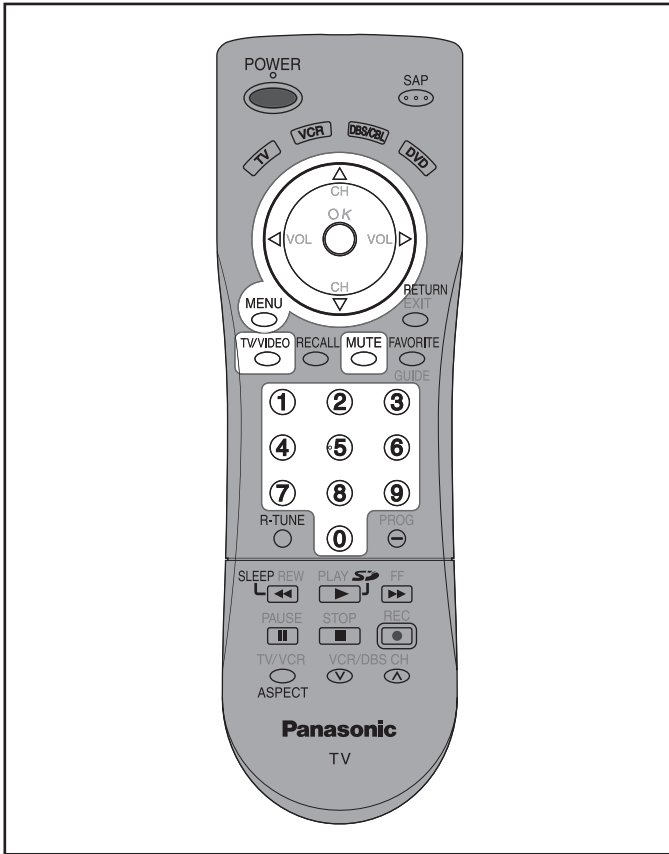
## Exit Single Play mode

Pressing RETURN during Single Play mode allows you to exit the mode.



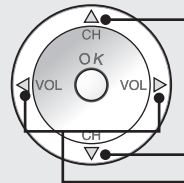
Press RETURN with Single Play mode displayed to return to the JPEG thumbnail mode.

# Setup Features



## CH scan

You may choose the way in which channels are selected with CH ▲▼.

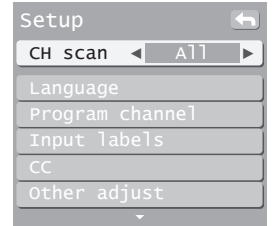


Press to select "CH scan".

Press to select "Fav." or "All".

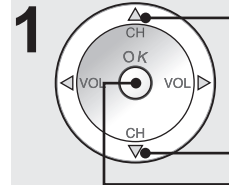
Fav.: CH ▲▼ only displays programs on the Favorite CH list.

All: CH ▲▼ selects all channels memorized with Auto Program.



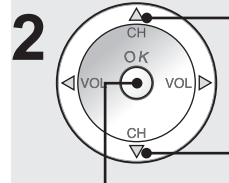
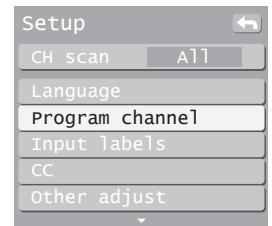
## Signal meter

Allows you to confirm the signal strength of a desired channel.



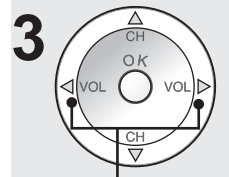
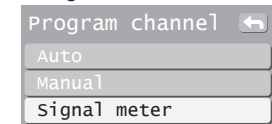
Press to select "Program channel".

Press to enter Program channel menu.

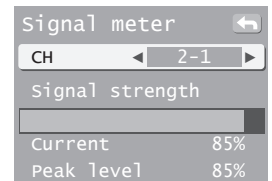


Press to select "Signal meter".

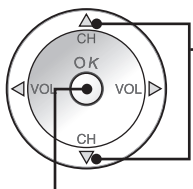
Press to display signal meter.  
• If Lock (p. 43) has been set, you must enter your password to display the signal meter screen.



Press to select desired channel.

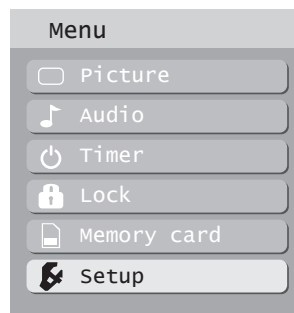


Press MENU to display the Main Menu screen.



Press to select "Setup" icon.

Press to display the Setup menu.

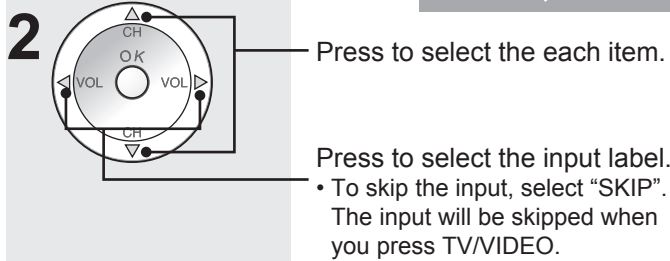
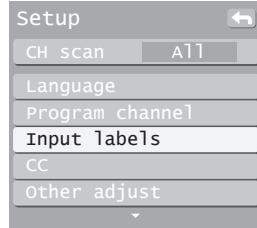
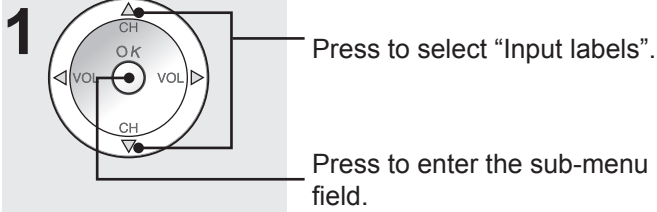


### Note:

• The signal meter works only for digital signals input via the antenna.

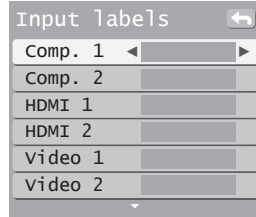
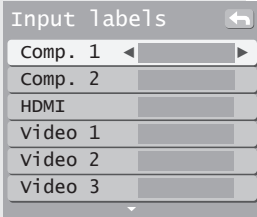
## Input labels

To label video input connections for on-screen display.



(For models PT-52LCX66/  
PT-56LCX66/PT-61LCX66)

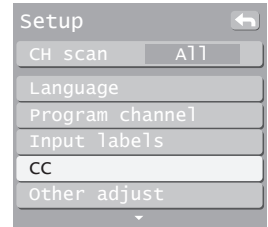
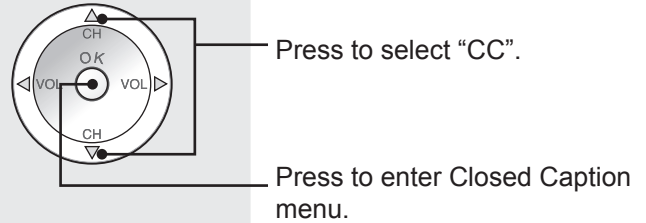
(For models PT-52LCX16/  
PT-56LCX16/PT-61LCX16)



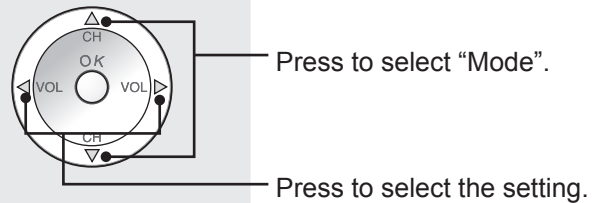
Selectable input labels :  
SKIP, VCR, DVD, CABLE, DBS, PVR, GAME, AUX,  
blank (non label).

## CC (Closed Caption)

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

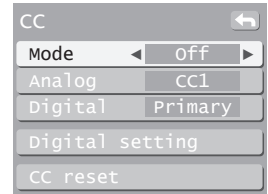


## CC Mode



Off : Recommended mode when  
Closed Caption is not being  
used.

On : To display Closed Captions.



### Notes:

- The closed caption is not displayed when you use HDMI connection.
- If analog connected equipment is used for displaying or recording, closed caption (CC) should be set On/Off on the connected equipment.

The CC mode setting of the TV will not affect the analog input.

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

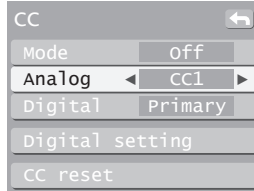
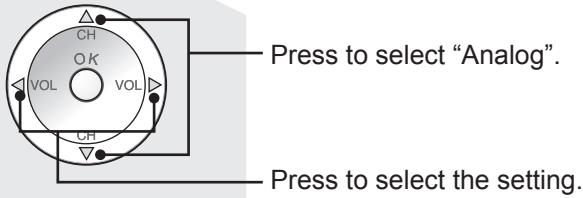
If digital connected equipment is used for input, CC should be set "On" on either the connected equipment or the TV.

If CC is set "On" on both the connected equipment and the TV, captions from each unit will overlap.

# Setup Features (continued)

## CC Mode for Analog

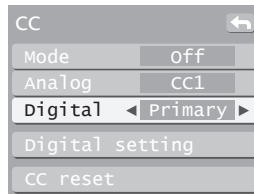
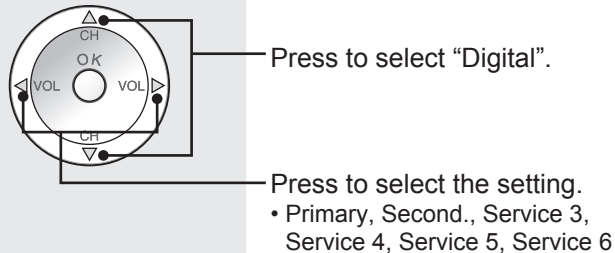
Choose the closed caption service of Analog broadcasting.



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

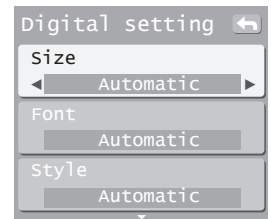
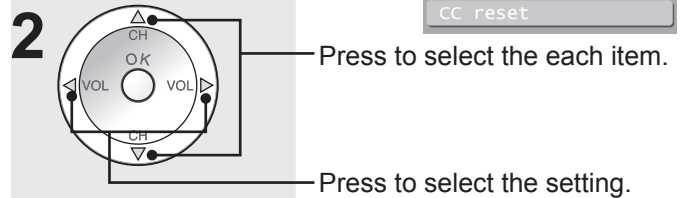
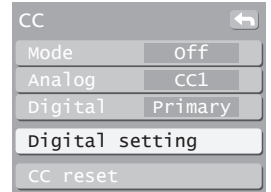
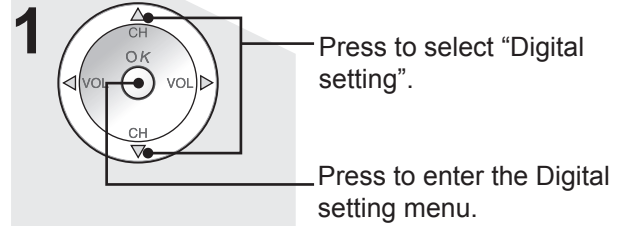
## CC Mode for Digital

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

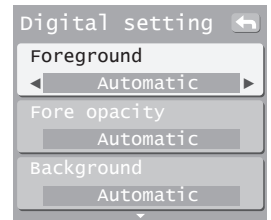


## Digital settings

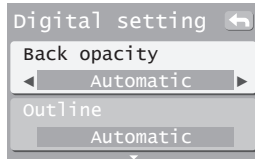
Selecting digital broadcast service and viewing formats.



Size	Automatic, Normal, Small, Large
Font	Automatic, Default, Mono-serif, Prop-serif, Mono, Prop, Casual, Cursive, Small caps
Style	Automatic, None, Raised, Depressed, Uniform, Drop shadow



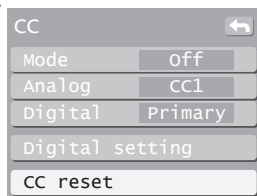
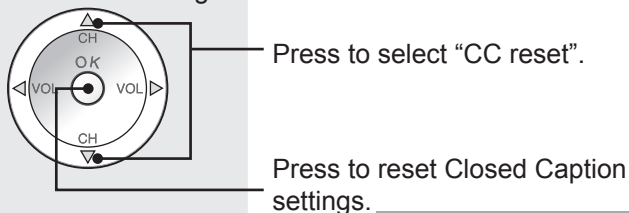
Foreground	The color of the font (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)
Fore opacity	The opacity of the font (Automatic, Transparent, Translucent, Solid, Flashing)
Background	The color of the text box (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)



Back opacity	The opacity of the text box (Automatic, Transparent, Translucent, Solid, Flashing)
Outline	The outline of the text (if selected under style) (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)

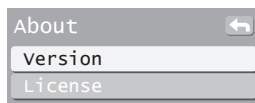
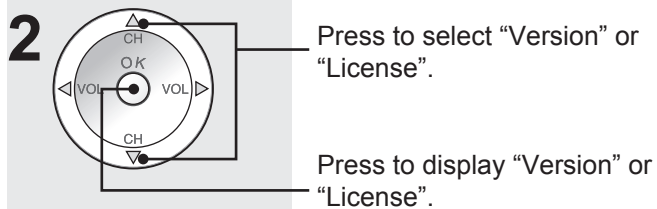
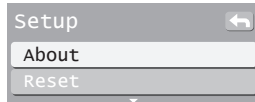
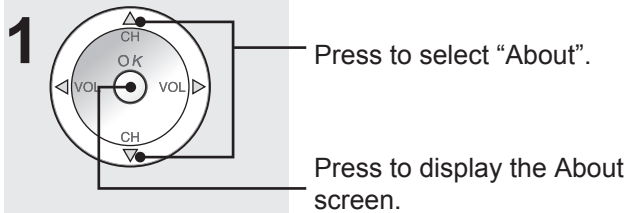
## CC Reset

Reset the CC settings.



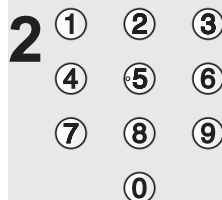
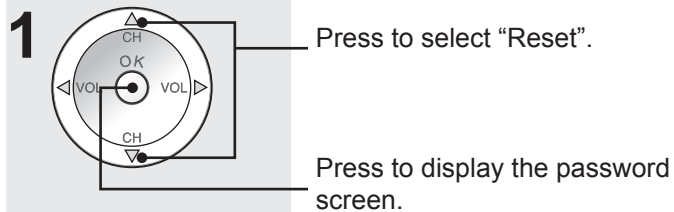
## About

Display the TV set Version and Software License.

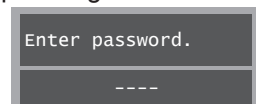


## Reset

Setup is reset.



Enter your password by pressing 0 ~ 9 keys to reset the Setup settings.



The confirmation screen is displayed. Select "Yes", and press OK.

### Notes:

- Performing Reset will clear all items set with Setup, such as channel settings. Use Reset with care.
- When using "Control with HDMI (HDAVI Control)", with the device connected, set "Ctrl with HDMI" first to "Off" and then "On" using the Setup Menu. (p. 56)
- POWER indicator flashes red. After flashing stops, unplug the unit then plug it back in and turn power ON.



# Setup Features (continued)

## Control with HDMI "HDAVI Control"\*

\* Simultaneously controls all Panasonic "HDAVI Control" equipped devices with one-button operation using a single remote.

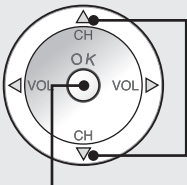
Newer Panasonic audio-video products with HDMI output connections can be controlled using the TV's remote. Limited features, such as home theater system volume control and automatic switching to the TV's HDMI input are possible.

- This feature is limited to models with Panasonic's "Control with HDMI". Refer to the individual instruction manuals for compatibility information.
- Non-HDMI-compliant cables cannot be utilized.
- We recommend using Panasonic HDMI cables RP-CDHG15 (1.5 m), RP-CDHG30 (3.0 m), RP-CDHG50 (5.0 m), etc. (Product numbers correct as of January 2006.)

### Notes:

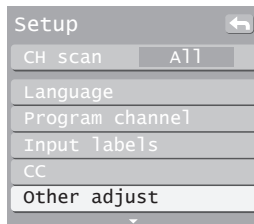
- "Control with HDMI" function does not work in countries other than the USA and Canada.
- Before using HDMI control functions, the connected equipment (DIGA, RAM theater, Player theater, AV amp) must also be set. For details, see the operation manual for each device.
- For equipment connection details, see pages 19-21.


- Set up the equipment, using it's manual, to enable this function.
- Turn the TV on again, with the equipment on, when connection or setup is changed.
- This function may not work properly depending on the equipment condition.
- The equipment can be operated by the TV's remote, with this function on, even if the TV is in Standby mode.
- Image/sound may not function for the first few seconds of playback.
- Image/sound may not function for the first few seconds after Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote of the Amplifier. Read the Amplifier manual.

- 

Press to select "Other adjust".

Press to display the Other adjust menu.

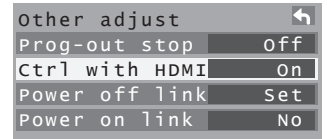


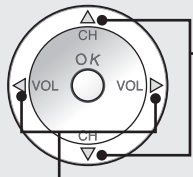
- 

Press to select "Ctrl with HDMI".

Press to select "On".

- Default setting is "On". If no HDMI devices are connected or standard HDMI (without "Control with HDMI") is used, set to "Off".



- 

Press to select the each item.

Press to select the setting.

Item	Explanations
Ctrl with HDMI	Controls equipment connected to HDMI terminal. (p. 19-21) • "Power off link" and "Power on link" do not work if "Off" is selected.
Power off link	When "Set" is selected, the TV can turn off and on the connected home theater/RAM theater/player theater and/or DIGA-DVD player.
Power on link	When "Set" is selected, the TV can automatically turn on and switch to the appropriate HDMI input whenever a "Control with HDMI" compatible DVD player/recorder is initially turned on or Play mode is selected. • While the power lamp is blinking, the picture cannot be seen. • Power on link will not work until lamp cooling is completed when power is turned off.

### Note:

- When the HDMI connection is changed, set "Ctrl with HDMI" first to "Off" and then "On" using the Setup Menu. (p. 19-21)

## Automatic Input Switching

At the start of DIGA/Player theater/RAM theater playback, TV input automatically switches to the input compatible with playback equipment.

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

If using DIGA operation and the DIGA menu is displayed, the TV input automatically switches to DIGA. If TV power is Off, it switches On.



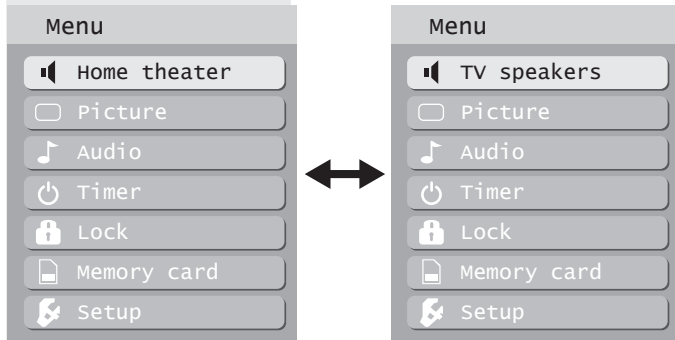
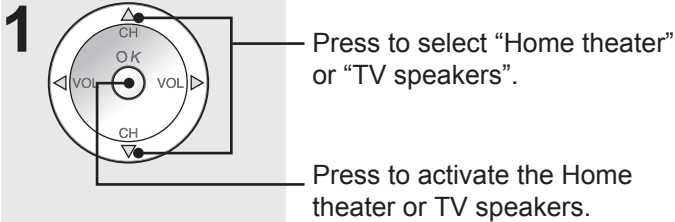
## Theater Speaker

You can control the theater speaker with this unit's Remote Control.

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

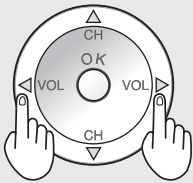
Pressing the OK button toggles between TV and home theater volume control.

- "Ctrl with HDMI" must be set to "On".
- Limited to newer Panasonic Home Theater, RAM theater and DIGA/DVD models with "Control with HDMI".



### ■ Home theater:

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



Press for desired volume level.

MUTE



Press to mute the sound.

### ■ TV speakers:

The TV speakers are active.

### Notes:

- Selecting "Home theater" mutes TV speaker sound.
- When "Home theater" is selected, the home theater volume control can be raised or lowered with the TV remote volume button. The TV displays "Home Theater + / -" on screen.
- If home theater/RAM theater/Player theater is currently off, selecting the "Home theater" option will automatically turn the equipment on.
- Turning off home theater/Player theater/RAM theater automatically switches unit to TV speakers.

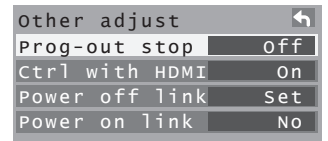
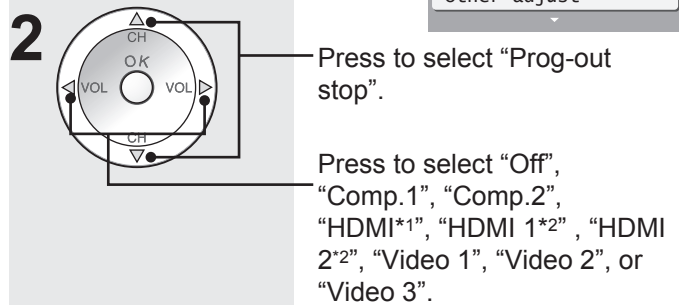
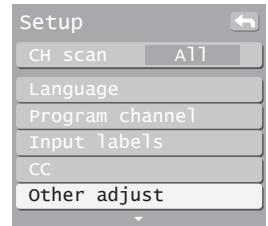
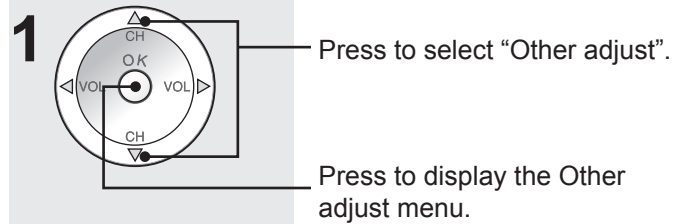
## One-touch Theater Playback

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

1. Home theater/Player theater power switches On and playback begins.
2. TV power switches On and the playback screen is displayed.
3. Audio is muted on the TV and switches to theater.

## Prog-out stop

When connecting external equipment to this unit - Stops output of the picture and sound signals at the AV OUT jacks for the input source selected in this menu to avoid signal loop.



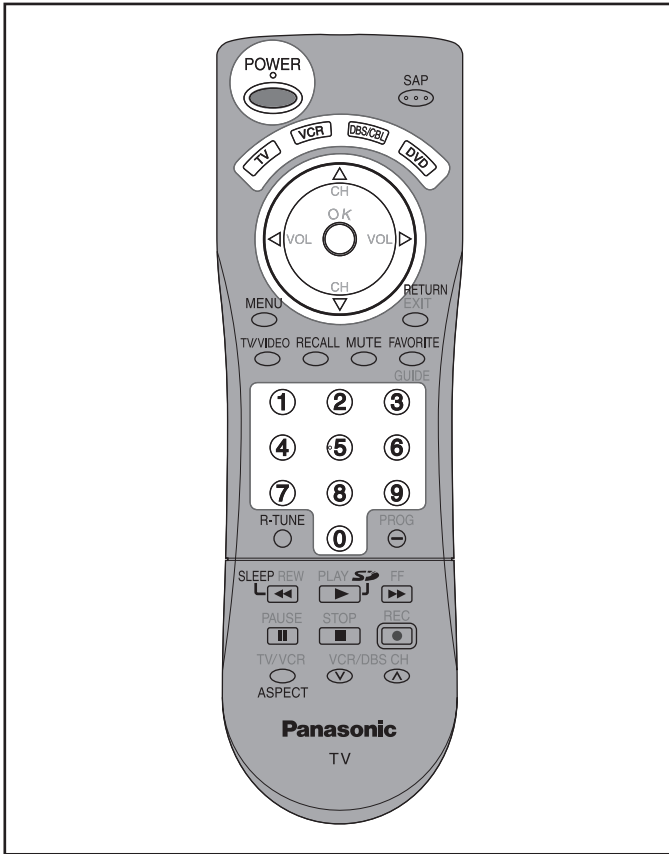
\*1: For models PT-52LCX66/PT-56LCX66/PT-61LCX66

\*2: For models PT-52LCX16/PT-56LCX16/PT-61LCX16

### Notes:


- The input signals connected to the terminal selected in "Prog-out stop" menu cannot be output from AV OUT terminals (both picture and audio).
- The Prog out will not output picture but can output only sound if the input is either Component or HDMI and when "Prog-out stop" is set to "Off" or other inputs.

# Operating Peripheral Equipment




You can operate other manufacturers' components using this unit's Remote Control.

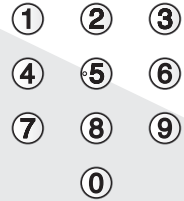
**1** Connect the external devices to the Projection Display and turn Off the external devices.


**2**  Press both buttons simultaneously for more than 3 seconds.

- Release the buttons when the equipment selection buttons start flashing.

**3**  Select the equipment with the equipment selection button.

- The selected button remains lit (other buttons are not lit).

**4**  Input the equipment's 4-digit Remote Control code. (p. 60-62)

**5**  Confirm the equipment with the Remote Control.

- The external equipment turns On.

## ■ If the equipment does not operate with Remote Control

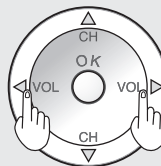
- When your equipment has a single code  
→ Input the remote control code again
- When your equipment has multiple codes  
→ Change the code with step 4 above and test again (p. 60-62)

### Caution:


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

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

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

**1**  After step 3 above, change the code and test store.

- Operate the equipment with the Remote Control. (p. 59)
- Repeat until the code is found.
- It may take many attempts before the correct code is found.

**2**  When the correct code is found.

# Remote Control Operation/Code List

The following explains how to operate external devices with the Remote Control.



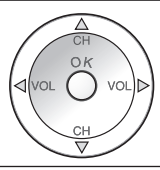







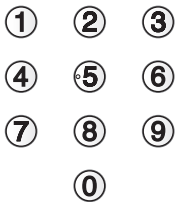









- Register the Remote Control codes (p. 58) if you want to operate an external device of another manufacturer. (p. 60-62)

**Note:**

- Operation may not be possible depending on the available memory size of the Remote Control.  
This Remote Control is not designed to cover operation of all functions of all models.

## Remote Control Operation List

This chart defines which keys are operational after programming (if needed), while in the selected Remote Control mode, VCR, DBS/CBL, DVD.

KEY NAME	VCR MODE	DBS/CBL MODE		DVD MODE
		DBS	CBL	
	VCR Power	STB Power	Power	DVD Power
	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
	–	Channel Up/Down	Channel Up/Down	Channel Up/Down
	TV Volume Up/Down	–	TV Volume Up/Down	TV Volume Up/Down
	–	OK	–	–
	–	Cursor Up/Down/Right/Left	–	–
	–	STB Menu	–	–
	–	Exit	–	–
	VCR Display	DBS Display	TV Recall	DVD Display
	TV Mute	TV Mute	TV Mute	TV Mute
	–	Guide	–	–
	–	STB Audio Track	–	–
	–	Program	–	–
	–	0-9	0-9	–
	–	Previous Channel	Previous Channel	–
	VCR Rewind	–	–	Skip Reverse/Rewind
	VCR Play	–	–	DVD Play
	VCR Forward	–	–	Skip Forward/Fast Forward
	VCR Pause	–	–	DVD Still/Pause
	VCR Stop	–	–	DVD Stop
	VCR Record	–	–	–
	TV/VCR Switch	DBS Aspect	–	Open/Close
	VCR Channel Up/Down	Page Up/Down	–	Slow+/Slow-

# Remote Control Operation/Code List (continued)

## Remote Control Code List

### Setup Code For All Cable Converters DBS/CR

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABC	0003, 0008	Hamlin	0009, 0273	Philips	0317, 1305	Scientific Atlanta	0008, 0477, 0877, 1877
Americast	0899	Jerrold	0003, 0276, 0476, 0810	Pioneer	0144, 0533, 0877, 1877	Sony	1006
Bell South	0899	Memorex	0000	Pulsar	0000	Starcom	0003
Digeo	1187	Motorola	1376, 0276, 0476, 0810, 1187	Quasar	0000	Supercable	0276
Director	0476	Pace	0008, 0237, 1877	Regal	0273, 0279	Torx	0003
General Instrument	0003, 0276, 0476, 0810	Panasonic	0000, 0107	Runco	0000	Toshiba	0000
GoldStar	0144	Paragon	0000	Samsung	0144	Zenith	0000, 0525, 0899

### Cable/PVR Combination DBS/CR

Americast	0899	Jerrold	0476, 0810	Pioneer	0877, 1877	Supercable	0276
Digeo	1187	Motorola	0476, 0810, 1187, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
General Instrument	0476, 0810	Pace	0237, 1877	Sony	1006		

### Setup Code For All Satellite Receivers DBS/CR

AlphaStar	0772	General Instrument	0869	Magnavox	0722, 0724	Samsung	1108, 1109, 1142, 1276, 1377, 1442, 1609
Chaparral	0216	GOI	0775, 1775	Memorex	0724	Sanyo	1219
Crossdigital	1109	Goodmans	1246	Mitsubishi	0749	Sony	0639, 1639, 1640
DirecTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1443, 1444, 1609, 1639, 1640, 1749, 1856	Hitachi	0819, 1250	Motorola	0856, 0869	Star Choice	0869
		HTS	0775, 1775	NEC	1270	Tivo	1142, 1442, 1443, 1444
		Hughes	0749, 1442, 1749	Next Level	0869	Toshiba	0749, 0790, 0819, 1285, 1749
		Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Panasonic	0152, 0247, 0701, 1786	UltimateTV	1392, 1640
		iLo	1535	Paysat	0724	Uniden	0722, 0724
		Janeil	0152	Philips	0099, 0722, 0724, 0749, 0819, 1076, 1142, 1442, 1749	US Digital	1535
Dish Network System	0775, 1005, 1170, 1505, 1775	Jerrold	0869	Pioneer	1442	USDTV	1535
Dishpro	0775, 1005, 1505, 1775	JVC	0775, 1170, 1775	Proscan	0392, 0566	Voom	0869
Echostar	0775, 1005, 1170, 1505, 1775	LG	1226, 1414	Proton	1535	Zenith	1856
Expressvu	0775, 1775			RadioShack	0869		
GE	0392, 0566			RCA	0143, 0392, 0566, 0855, 1392		

### DBS/PVR Combination DBS/CR

DirecTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Dishpro	0775, 1505	JVC	1170	Samsung	1442
		Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
		Expressvu	0775	Philips	1142, 1442	Star Choice	0869
Dish Network System	0775, 1505	Hughes Network Systems	1142, 1442, 1443, 1444	Proscan	0392		
				RCA	1392		

## Setup Code For All VCRs VCR

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABS	1972	Hewlett Packard	1972	NEC	0067	Scott	0043, 0045
Adventura	0000	Hitachi	0000, 0042, 0089	Nikko	0037	Sears	0000, 0035, 0037, 0042, 1237
Aiwa	0000, 0037, 0124	Howard Computers	1972	Niveus Media	1972	Sharp	0807, 0848
Akai	0175	HP	1972	Northgate	1972	Sonic Blue	0614, 0616
Alienware	1972	Hughes Network Systems	0042, 0739	Olympus	0035, 0226	Sony	0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972
American High	0035	Humax	0739	Onkyo	0222	Stack 9	1972
Audiovox	0037	Hush	1972	Optimus	0037	STS	0042
Broksonic	1479	iBUYPOWER	1972	Orion	1479	Sylvania	0000, 0035, 0043, 1781
Calix	0037	JVC	0067	Panasonic	0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244	Symphonic	0000
Canon	0035	KEC	0037	Penney	0035, 0037, 0042, 1035, 1237	Systemax	1972
Citizen	0037, 1278	Kenwood	0067	Pentax	0042	Tagar Systems	1972
Craig	0037	Kodak	0035, 0037	Philco	0035	Teac	0000
Curtis Mathes CyberPower	1972	Linksys	1972	Philips	0035, 0618, 0739, 1081, 1181	Technics	0035
Daewoo	0045, 1278	Lloyd's	0000	Pilot	0037	Teknika	0000, 0035, 0037
Dell	1972	LXI	0037	Pioneer	0067	Thomas	0000
Denon	0042	Magnasonic	1278	Proscan	0060, 1060	Tivo	0618, 0636, 0739
DirecTV	0739	Magnavox	0000, 0035, 0039, 1781	Pulsar	0039	Toshiba	0043, 0045, 0845, 1008, 1145, 1972
Durabrand	0039	Marantz	0035	Quasar	0035, 0077, 1035	Totevision	0037
Dynatech	0000	Marta	0037	RadioShack	0000	Touch	1972
Electrohome	0037, 0043	Matsushita	0035	Radix	0037	Vector	0045
Electroponic	0037	Media Center PC	1972	Randex	0037	Video Concepts	0045
Emerex	0032	MEI	0035	RCA	0042, 0060, 0077, 0807, 0880, 1035, 1060	Videomagic	0037
Emerson	0000, 0037, 0043, 1278, 1479	Memorex	0000, 0035, 0037, 0039, 1237	Realistic	0000, 0035, 0037	Viewsonic	1972
Fuji	0033, 0035	MGA	0043	ReplayTV	0614, 0616	Villain	0000
Funai	0000	Microsoft	1972	Ricavision	1972	Voodoo	1972
Garrard	0000	Mind	1972	Runco	0039	Wards	0000, 0035, 0042, 0060
Gateway	1972	Minolta	0042	Samsung	0045, 0739, 1014	XR-1000	0000, 0035
GE	0035, 0060, 0807, 1035, 1060	Mitsubishi	0043, 0067, 0807	Sanky	0039	Zenith	0000, 0033, 0039, 1479
GoldStar	0037, 1237	Motorola	0035	Sansui	0000, 0067, 1479	ZT Group	1972
Gradiente	0000	MTC	0000	Sanyo	0159		
Harley Davidson	0000	Multitech	0000				

## PVR VCR

ABS	1972	Hughes Network Systems	0739	Niveus Media	1972	Systemax	1972
Alienware	1972	Humax	0739	Northgate	1972	Tagar Systems	1972
CyberPower	1972	Hush	1972	Panasonic	0616	Tivo	0618, 0636, 0739
Dell	1972	iBUYPOWER	1972	Philips	0618, 0739	Toshiba	1008, 1972
DirecTV	0739	Linksys	1972	RCA	0880	Touch	1972
Gateway	1972	Media Center PC	1972	ReplayTV	0614, 0616	Viewsonic	1972
Hewlett Packard	1972	Microsoft	1972	Sonic Blue	0614, 0616	Voodoo	1972
Howard Computers	1972	Mind	1972	Sony	0636, 1972	ZT Group	1972
HP	1972			Stack 9	1972		

# Remote Control Operation/Code List (continued)

## Setup Code For All Digital Video Disks DVD

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Allegro	0869	GoldStar	0741	Onkyo	0503, 0792	Sensory Science	1158
Apex Digital	0672, 0794, 0796, 0797, 1004, 1056, 1061, 1100	Gradiente	0490	Panasonic	0490, 0503, 0632, 0703, 1010, 1011, 1362, 1462, 1490, 1762, 1967	Sharp	0630, 0675, 0752, 1256
Aspire Digital	1168	Grundig	0539	Philips	0503, 0539, 0646, 0675, 1267, 1354	Shinasonic	0533
Blue Parade	0571	Hitachi	0573, 0664	PianoDisc	1024	Sonic Blue	0869
Broksonic	0695	Hiteker	0672	Pioneer	0525, 0571, 0631, 0632	Sony	0533, 0864, 1033, 1431, 1533
California Audio Labs	0490	Integra	0571	Polaroid	1061, 1086	Sylvania	0675
CineVision	0833, 0869	JVC	0558, 0623, 0867, 1164, 1275	Polk Audio	0539	Symphonic	0675
Coby	1086	Kenwood	0490, 0534	Proceed	0672	Teac	0809
CyberHome	1024, 1129	Lecson	1533	Proscan	0522	Technics	0490, 0703
Daewoo	0833, 0869	LG	0591, 0741, 0801, 0869	RCA	0522, 0571, 0822	Theta Digital	0571
Denon	0490	LiteOn	1158, 1440	Rio	0869	Toshiba	0503, 0695, 1045, 1154
Disney	0675	Loewe	0511	Rotel	0623	Urban Concepts	0503
DVD2000	0521	Magnavox	0503, 0539, 0646, 0675	Sampo	0752	Xbox	0522
Emerson	0591, 0675	Marantz	0539	Samsung	0490, 0573, 0820, 1075	Yamaha	0490, 0539, 0545
Enterprise	0591	McIntosh	1533	Sansui	0695	Zenith	0503, 0591, 0741, 0869
Funai	0675	Memorex	0695	Sanyo	0695, 0873, 1967		
Gateway	1158	Microsoft	0522				
GE	0522	Mitsubishi	0521, 1521				
Go Video	0741, 0833, 0869, 1075, 1158, 1304, 1730	NAD	0591, 0741				
		NEC	0785				

## DVD-R DVD

Apex Digital	1056	Go Video	0741, 1158, 1304, 1730	Philips	0646	Sensory Science	1158
Aspire Digital	1168	JVC	1164, 1275	Pioneer	0631	Sharp	0675
Coby	1086	LG	0741	Polaroid	1086	Sony	1033, 1431
CyberHome	1129	LiteOn	1158, 1440	RCA	0522	Sylvania	0675
Funai	0675	Magnavox	0646	Samsung	0490	Zenith	0741
Gateway	1158	Panasonic	0490, 1010, 1011				

# Warning Indicators

Indicator lights on the front of the unit alert you to the unit's internal condition. (p. 10)

If the Lamp, Power, or Temp indicators flash, turn unit off and follow the directions below.

	Indicator	Symptom	Problem	Possible Solution
<b>TEMP Indicator</b>	Flashes red 2 times.	Power shuts off.	Malfunction 1.	Contact service center.
	Flashes red 3 times.	Power shuts off.	Internal overheat error.	Wait a while, then turn unit back on.
	Flashes red 6 times.	Power shuts off.	Malfunction 2.	Contact service center.
<b>POWER Indicator</b>	Flashes orange 1 time.	Power shuts off.	Malfunction 3.	Contact service center.* <sup>1</sup>
	Flashes orange 2 times.	Power shuts off.	Malfunction 4.	Contact service center.* <sup>1</sup>
	Flashes orange 3 times.	Power shuts off.	Malfunction 5.	Contact service center.* <sup>1</sup>
	Flashes orange 5 times.	Power shuts off.	Malfunction 6.	Contact service center.* <sup>1</sup>
	Flashes orange 7 times.	Power shuts off.	The Lamp Cover is unsecured.	Securely attach Lamp Cover.
	Flashes orange 8 times.	Power shuts off.	Malfunction 7.	Contact service center.* <sup>1</sup>
	Lights solid orange.	The screen isn't illuminated.	Malfunction 8.	Contact service center.* <sup>1</sup>
<b>LAMP Indicator</b>	Flashes red 1 time.	Power shuts off.	Lamp will not light or light is abnormal.	Try turning Power On several times. If error persists, contact service center.
	Flashes red 2 times.	Dynamic iris off.	Malfunction 9.	Contact service center.
	Flashes red 3 times.	Dynamic iris off.	Malfunction 10.	Contact service center.
	Lights solid red.	OSD appears every time power is turned on.	Maximum Lamp life hours exceeded.	Replace Lamp.

\*<sup>1</sup>: Press unit POWER button down over 7 seconds. The POWER indicator goes out. Turn Power back On after 5 seconds. If the warning indicator still does not go out, please contact a service center.

## Note:

- Once necessary steps have been taken, and before turning unit back On, be sure the unit has sufficiently cooled down. Especially if the unit was used for a long period, the lamp may take a while to cool down.



# Replacing the lamp unit

The lamp unit is sold separately. To purchase a replacement, call the Panasonic accessory department, toll free at: 1-800-332-5368.

Lamp unit Part No. : TY-LA1001

## Lamp unit replacement period

The Lamp is a consumable item and its life varies based on individual usage. Panasonic warrants the original Lamp for a period of 18 months from the date of purchase of the TV. Replacing the lamp is so easy that you can do it yourself. For the lamp replacement procedure, please see the next page.

- The unit will detect when the Lamp's end of life is approaching and the message (shown at right) will be displayed.
- The LAMP indicator light will be lit when the Lamp's end of life is approaching.

The lamp needs to be replaced, and the lamp hour meter needs to be reset.

Influences of frequent lighting, continuous light use for over 24 hours, the number of times lit, the length of time between lightings, etc. may shorten lamp life. (Because of this, we recommend having a replacement lamp on hand.)

## ⚠ WARNING

Failure to follow these warnings when replacing the lamp unit could result in personal injury:

- 1) The lamp could rupture if dropped and lamp fragments could cause injury.
- 2) Because the lamp unit is hot immediately after its use, touching it may cause burns. Please allow the lamp to cool before handling or replacing the lamp unit.
- 3) If replacement of the lamp unit becomes necessary during the operation of the Projection Display, follow the procedure below.
  - a. Press the POWER button on the Remote Control to turn off the power.
  - b. Wait for about 1 minute until the cooling fan stops.
    - The lamp cooling fan will continue to operate for about 1 minute after turning off the power. Do not unplug the power cord from the outlet until the fan has stopped. Avoid interrupting the power line by using circuit breakers or switchable power strips.
  - c. After the cooling fan has stopped, Disconnect the power cord from the outlet.
  - d. Please wait more than one hour to let the lamp cool before replacing it.
  - e. **[If you need to replace the lamp more urgently]**
    - The Projection Display has a forced cooling feature. After the POWER button is turned OFF, and during the first minute of the normal cooling fan operation, press the VOL+ button on the Projection Display and the ▲ button on the Remote Control at same time for more than 5 seconds. The cooling fan operates for about 10 minutes. The LAMP indicator flashes red 5 times every 5 seconds.

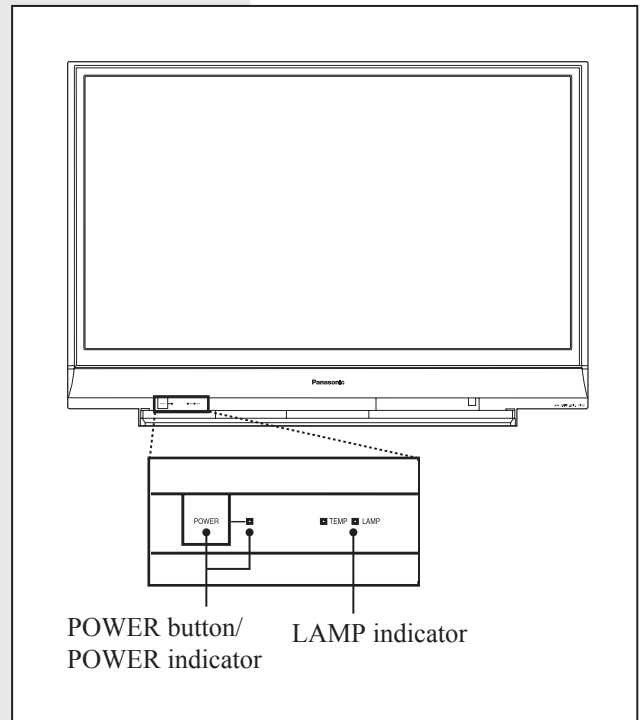
## ⚠ CAUTION

Because of the possibility of injury, strictly follow the replacement procedure on the next page.

This product has a High Intensity Discharge (HID) lamp that contains 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: <<http://www.eiae.org>>

## Lamp replacement procedure

- 1 Turn power off, wait until power indicator stops blinking red, then disconnect the power cord from the wall outlet and confirm that the area around the lamp unit has cooled down.



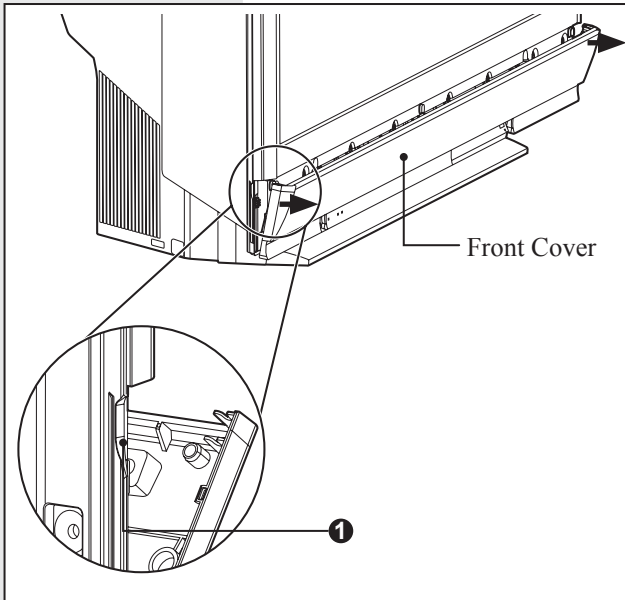
- Please wait more than one hour for lamp replacement. If you need to replace the lamp more urgently, please see "e" at left.



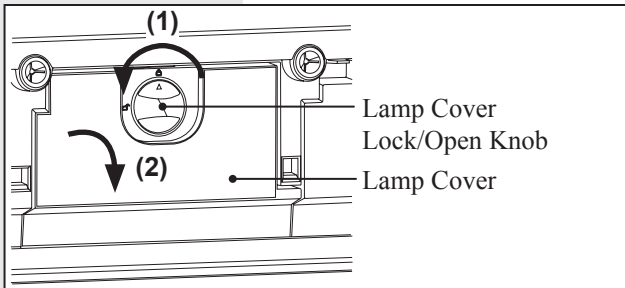
**Note:**

- Remove Front Cover after Front Door (p. 10) is opened.

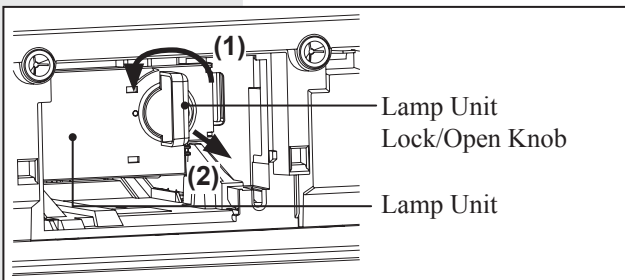
**2** Pull on both ends of the Front Cover ❶ with your fingertips to remove it.



**3** (1) Turn the Lamp Cover Lock/Open Knob to the left.  
(2) Pull the Lamp Cover out and down to open it.



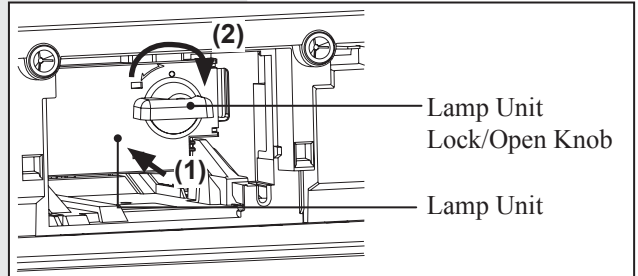
**4** (1) Turn the Lamp Unit Lock/Open Knob to the left.  
(2) Grasp the Lamp Unit Lock/Open Knob and slowly remove the Lamp Unit as shown.



**⚠ CAUTION**

- The Lamp Unit is hot right after use and may cause burns if touched.
- Please allow the Lamp Unit to cool before handling or replacing it.

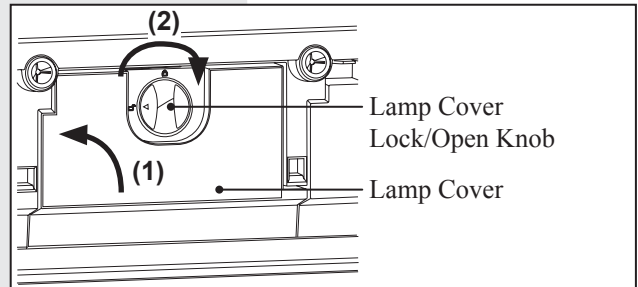
**5** (1) Insert the new Lamp Unit being careful of the insertion direction.  
• Press on the arrow mark to confirm proper insertion.  
(2) Turn the Lamp Unit Lock/Open Knob to the right until it clicks.



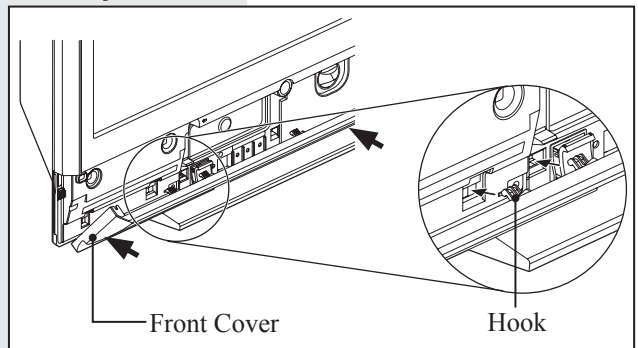
**Notes:**

- Properly dispose of the old lamp. Please see page 64.
- Secure the Lamp Unit and Lamp Unit housing door. If they are not secured, a protective circuit will not allow the lamp to turn on.
- At this point, confirm that the Lamp Unit will not come out by pulling on the Lamp Unit Lock/Open Knob.

**6** (1) Close the Lamp Cover.  
(2) Turn the Lamp Cover Lock/Open Knob to the right.



**7** Be sure that the hook on the Front Cover is securely fastened to the unit as shown.



**After lamp replacement, you must reset the lamp time. Refer to the instructions enclosed with the lamp unit (Part No.: TY-LA1001).**

# Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks	Page
Power does not turn ON.		<ul style="list-style-type: none"> <li>Is the power cord plugged in?</li> <li>The lamp cover is ajar. Firmly replace the cover.</li> </ul>	24
Remote Control/ Unit buttons do not function. Power does not turn ON or OFF. Image is distorted. Image freezes.		<ul style="list-style-type: none"> <li>Press unit POWER button down over 7 seconds. The POWER indicator goes out. If the Power was On, the screen will also disappear. After 5 seconds, turn Power On and operate unit normally. If the steps above do not restore normal operation, disconnect then reconnect the AC plug and turn the power On.</li> </ul>	-
No picture even if the power is turned ON. LAMP indicator blinks red.		<ul style="list-style-type: none"> <li>Please replace lamp with a new one. Please consult your nearest dealer, if problem persists.</li> </ul>	64-65
The power turns OFF.	The TEMP indicator flashes red.	<ul style="list-style-type: none"> <li>Check whether or not the vents are clogged.</li> <li>Is the set being used in a location that is hot?</li> </ul>	63
	Power turns off while another indicator is flashing.	<ul style="list-style-type: none"> <li>Please consult your nearest dealer.</li> </ul>	63
Remote Control does not function.		<ul style="list-style-type: none"> <li>Are the batteries dead or inserted incorrectly?</li> </ul>	7
		<ul style="list-style-type: none"> <li>Is the Remote Control sensor in direct fluorescent lamp light or other strong sources of light?</li> </ul>	10
		<ul style="list-style-type: none"> <li>Did you correctly set the Remote Control code?</li> </ul>	58-62
Image shakes.		<ul style="list-style-type: none"> <li>Is the antenna or antenna cable old, broken, or shorted out?</li> </ul>	-
Image is not clear. (blurring / vertical lines)		<ul style="list-style-type: none"> <li>Is the antenna cable connected properly?</li> </ul>	12-13
		<ul style="list-style-type: none"> <li>A sudden temperature change may have caused condensation in the internal optics which results in blurring or vertical lines. Please wait until room temperature is normal and constant before turning power ON. These symptoms will clear up as time passes.</li> </ul>	-
		<ul style="list-style-type: none"> <li>Depending on the connected device, a 1080i input signal may cause the picture to flicker. If the connected device has a format selection switch, set the format to 720p.</li> </ul>	-
Color patches or no color.		<ul style="list-style-type: none"> <li>When using a VCR and selecting channels on the TV, is the TV/VIDEO mode for the VCR set to TV?</li> </ul>	-
Image appears doubled or tripled.		<ul style="list-style-type: none"> <li>Is the antenna facing the right direction?</li> </ul>	-
		<ul style="list-style-type: none"> <li>Is the antenna receiving any signals reflected off of mountains or buildings?</li> </ul>	-
Images disappear at the top and bottom of the screen.		<ul style="list-style-type: none"> <li>When using 16:9 image software (cinema vision size software, etc.), there is no picture at the top and bottom of the screen.</li> </ul>	-
During ZOOM modes, the image is cut off at the top and bottom.		<ul style="list-style-type: none"> <li>Please adjust the V-Size. This is not a malfunction.</li> </ul>	36, 38
The Projection Display set makes a high whistling sound when the power is ON.		<ul style="list-style-type: none"> <li>This is the sound of the internal Starting UP. This is not a malfunction.</li> </ul>	-
Some parts of the screen are always lit while others do not light up. Some parts of the screen do not light up.		<ul style="list-style-type: none"> <li>This is a characteristic of the LCD panel and not a malfunction.</li> </ul>	-
Fan is operating even though TV Power is OFF.		<ul style="list-style-type: none"> <li>This is because the cooling fan is operating. The fan will stop after about 1 minute.</li> </ul>	24
An OSD instructing to replace the lamp is displayed. (The LAMP indicator is lit red.)		<ul style="list-style-type: none"> <li>Replace lamp with a new one.</li> </ul>	64-65
Relighting the lamp when it is hot makes a sound.		<ul style="list-style-type: none"> <li>This is a characteristic of the lamp and not a malfunction.</li> </ul>	-

Symptoms	Checks	Page
Leaving stationary images, such as still video images, web pages, or filler bars (used for NORMAL aspect mode), on-screen for an extended period of time can leave ghost images on the screen.	<ul style="list-style-type: none"> <li>This is a characteristic of the LCD panel and not a malfunction. Try displaying constantly moving pictures which fill the entire screen, or turn the power OFF for a while to return the screen to normal.</li> </ul>	-
An OSD advising "AIR FILTER CLEANING..." is displayed.	<ul style="list-style-type: none"> <li>Please consult your nearest dealer.</li> </ul>	-
When viewing with HDMI connection, picture is displayed with unnatural colors (as if red and blue are reversed).	<ul style="list-style-type: none"> <li>Change "Color corr." from "Off" to "On".</li> </ul>	39
Pictures from equipment are unusual when the equipment is connected via HDMI.	<ul style="list-style-type: none"> <li>Is the HDMI cable connected properly?</li> </ul>	19-21
	<ul style="list-style-type: none"> <li>Turn Off the TV unit and device, then turn them On again.</li> </ul>	-
	<ul style="list-style-type: none"> <li>Check the input signal from the equipment.</li> </ul>	32
No sound is produced.	<ul style="list-style-type: none"> <li>Is "Sound Mute" active?</li> </ul>	34
	<ul style="list-style-type: none"> <li>Is the volume set to the minimum?</li> </ul>	33
	<ul style="list-style-type: none"> <li>Is "Speakers" set to "Off"?</li> </ul>	41
	<ul style="list-style-type: none"> <li>Change "SAP" settings.</li> </ul>	35
	<ul style="list-style-type: none"> <li>Check "HDMI in" (PT-52LCX66/PT-56LCX66/PT-61LCX66) / "HDMI1 in" or "HDMI2 in" (PT-52LCX16/PT-56LCX16/PT-61LCX16) in settings when the equipment is connected via HDMI.</li> </ul>	41
	<ul style="list-style-type: none"> <li>If digital sound connection has problem, select analog sound connection.</li> </ul>	19-21, 41

# Specifications

		PT-52LCX66/PT-52LCX16	PT-56LCX66/PT-56LCX16	PT-61LCX66/PT-61LCX16
<b>Power Source</b>		AC 120 V, 60 Hz		
<b>Power Consumption</b>		Power ON: Approx. 190 W (When audio is at maximum) Power OFF: Approx. 0.4 W (When cooling fan is stopped)		
<b>LCD panels</b>		0.7" Poly silicon TFT LCD panel × 3 921 600 (1 280 × 720) stripe pixels × 3 panels (16:9)		
<b>Display</b>		52-inch, 16 : 9 aspect ratio	56-inch, 16 : 9 aspect ratio	61-inch, 16 : 9 aspect ratio
<b>Speaker</b>		2 Speakers 20 W [10 W + 10 W] (10 % THD)		
<b>HID Lamp</b>		100 W HID (High Intensity Discharge) Lamp		
<b>Channel Capability</b> (Digital/Analog)		VHF/UHF Cable	2-69 1-135	
<b>Input Terminals</b>	PC INPUT	RGB analog AUDIO	0.7 Vp-p (75 Ω) (D-SUB 15P) 0.5 Vrms (M3 Stereo mini Pin Jack)	
	AV INPUT 1-3	VIDEO S-VIDEO AUDIO L-R	1.0 Vp-p (75 Ω) (RCA Pin Jack) Y : 1 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω) (Mini DIN 4 pin) 0.5 Vrms (RCA Pin Jack × 2)	
	COMPONENT VIDEO INPUT 1-2	Y P <sub>B</sub> / P <sub>R</sub> AUDIO L-R	1.0 Vp-p (with sync) (75 Ω) (Pin Jack) ± 0.35 Vp-p (75 Ω) (Pin Jack × 2) 0.5 Vrms (RCA Pin Jack × 2)	
	HDMI*1 HDMI 1-2*2	HDMI type A Connector AUDIO L-R	0.5 Vrms (RCA Pin Jack Type × 2)	
<b>SD Card slot</b>		SD Card (8 MB/ 16 MB/ 32 MB/ 64 MB/ 128 MB/ 256 MB/ 512 MB/ 1 GB/ 2 GB (Maximum))		
<b>Output signals</b> (AV OUT)		VIDEO AUDIO L-R	1.0 Vp-p (75 Ω) (RCA Pin Jack) 0.5 Vrms (RCA Pin Jack × 2)	
<b>Dimensions</b> ( W × H × D )		1 232 mm (W) × 867 mm (H) × 420 mm (D) 48-1/2" (W) × 34-1/8" (H) × 16-9/16" (D)	1 321 mm (W) × 925 mm (H) × 446 mm (D) 52" (W) × 36-7/16" (H) × 17-9/16" (D)	1 431 mm (W) × 999 mm (H) × 479 mm (D) 56-5/16" (W) × 39-5/16" (H) × 18-7/8" (D)
<b>Weight (Mass)</b>		31 kg (68 lbs.) Net	33 kg (73 lbs.) Net	35 kg (77 lbs.) Net
<b>Operating conditions</b>		Temperature : 0 °C – 35 °C (32 °F - 95 °F) Humidity : 20 % - 80 % (non-condensing)		

\*1 For models PT-52LCX66/PT-56LCX66/PT-61LCX66

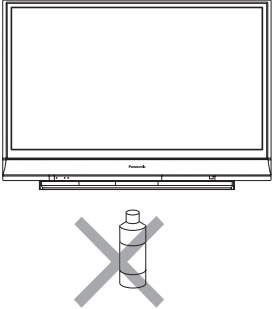
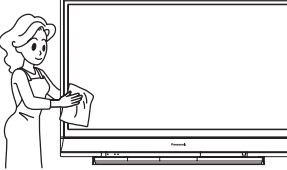
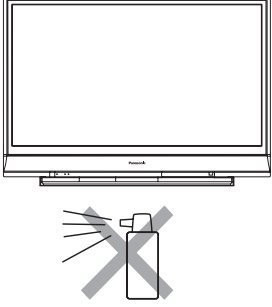

\*2 For models PT-52LCX16/PT-56LCX16/PT-61LCX16

## Note:

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

# Cleaning

To ensure continued excellent performance by this product, periodic cleaning is recommended.

	<p>The unit contains many plastic parts. For this reason <b>DO NOT</b> use benzine, thinner or other chemicals to clean the unit.</p>		<p>Dust will accumulate on the picture screen. Please wipe with a soft cloth from time to time. If you use a chemically treated cloth, please be careful to follow the instructions that come with the cloth.</p>
	<p><b>DO NOT</b> bring into contact with insecticide or other volatile substances. <b>DO NOT</b> allow the unit to come into contact for extended periods with rubber or vinyl products.</p>		<p>Remove dirt and soiling by wiping with a light cloth. Even if the unit is heavily soiled, do not apply cleaner directly to the unit. Soak a cloth in a solution of neutral cleanser diluted with water. Then wring out the cloth, wipe the unit clean, and finish by wiping with a dry cloth. Do not use any type of cleansers on the picture screen.</p>

# Customer Services Directory

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

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

or, contact us via the web at:

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

You may also contact us directly at:

1-800-211-PANA (7262),

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

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

## Accessory Purchases

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

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

or, send your request by E-mail to:

[npcparts@us.panasonic.com](mailto:npcparts@us.panasonic.com)

You may also contact us directly at:

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

Panasonic Services Company

20421 84th Avenue South,

Kent, WA 98032

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

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

## Service in Puerto Rico

Panasonic Puerto Rico, Inc. Panasonic Sales Company

Factory Servicer:

Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985

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

# Limited Warranty

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

PANASONIC SALES COMPANY, DIVISION OF PANASONIC  
PUERTO RICO, INC.,  
AVE. 65 de Infantería, Km. 9.5 San Gabriel Industrial Park,  
Carolina, Puerto Rico 00985

## Panasonic Multimedia Projection HDTV Limited Warranty

### Limited Warranty Coverage

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

CATEGORY	PARTS	LABOR	SERVICE
Multimedia Projection HDTV	One (1) Year except lamp Original Lamp-18 months	One (1) Year	In-Home or Carry-In

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

### Carry-in or In-Home Service

For In-Home or Carry-In Service in the United States call 1-888-VIEW-PTV (1-888-843-9788).

For assistance in Puerto Rico call Panasonic Sales Company (787)-750-4300 or fax (787)-768-2910.

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

### Limited Warranty Limits And Exclusions

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That’s all there is to it!

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