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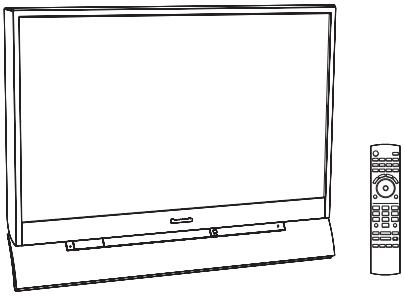
The following projector manual has not been modified or altered in any way.



Panasonic®

Multimedia Projection HDTV
Operating Instructions

Models No. **PT-44LCX65/PT-52LCX65/PT-61LCX65/ PT-52LCX35/PT-61LCX35**

HDTV INTEGRATED TUNER — DOLBY DIGITAL — SD — ViVA HD3D Sound BBE — HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

(USA) **For assistance, please call :** **1-888-VIEW PTV(843-9788)** **or, contact us via the web at:** **http://www.panasonic.com/contactinfo**	**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**
(Puerto Rico) **For assistance, please call :** **787-750-4300** **or visit us at www.panasonicpr.com**	

DTV ATSC CERTIFIED * DIGITAL TELEVISION

* 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.

This operating instruction book is designed for use with models PT-44LCX65, PT-52LCX65, PT-61LCX65, PT-52LCX35 and PT-61LCX35. Illustrations in this manual show the PT-52LCX35.

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

LSQT1078 B

⚠ IMPORTANT SAFETY INSTRUCTIONS

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

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-44LC65C for the PT-44LCX65, TY-52LC65C for the PT-52LCX35 or PT-52LCX65, TY-52LC35 for the PT-52LCX35 or PT-52LCX65, and TY-61LC65C for the PT-61LCX65 or PT-61LCX35. 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 life.
The lamp should be changed as soon as possible once the lamp warning message appears. (See page 66.)
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.
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- Equipped with dbx®-TV Noise Reduction for true MTS reproduction. dbx®-TV Noise Reduction is required for good stereo separation and audio fidelity. dbx® is a registered trademark, and is licensed by dbx® Technology Licensing.
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SD Logo is a trademark.

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

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

License description: To view the license information for software used in this product, press the Menu button and select “Setup”→“About”→“License”. (See page 57).

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

(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

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-44LCX65/PT-52LCX65/PT-61LCX65/PT-52LCX35/PT-61LCX35**
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

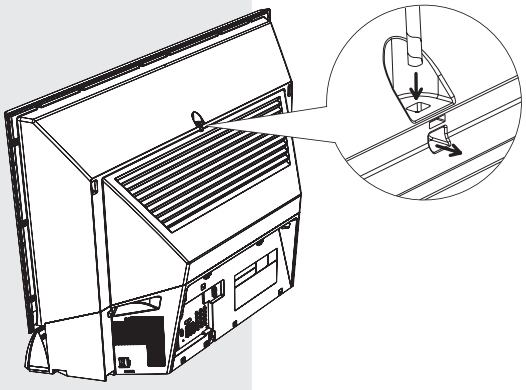
The Video / Audio connection between components can be made with shielded video and audio cables. For best performance, video cables should utilize 75 Ω coaxial shielded cables. Cables are available from your dealer or electronic supply house.
Before you purchase any cables, be sure you know what type 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.



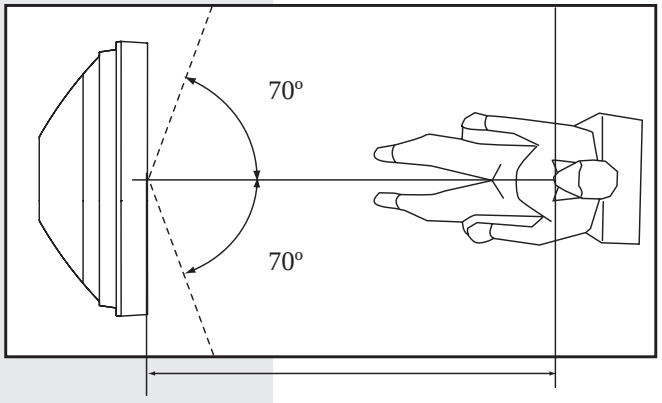
Accessories

1. Remote Control (EUR7627Z70)
2. Batteries 2 "AA"

Viewing position

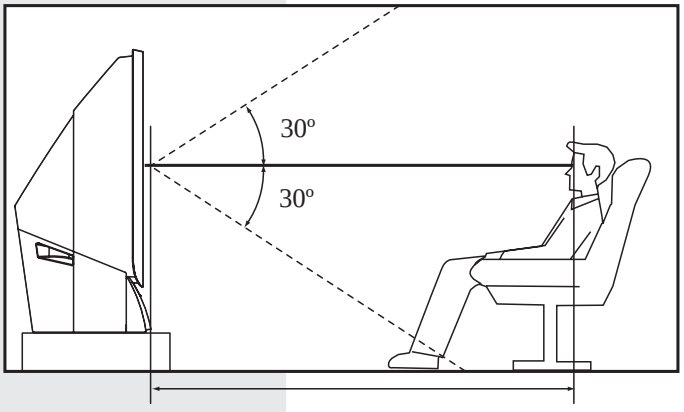
To optimize your viewing comfort, please follow the viewing guidelines shown in the diagrams below.
If viewing for an extended period of time, sit as far back from the screen as possible.

<Top view>



At least 1.6 m (PT-44LCX65) / 1.8 m (PT-52LCX65/ PT-52LCX35) / 2.2 m (PT-61LCX65/PT-61LCX35).

<Side view>



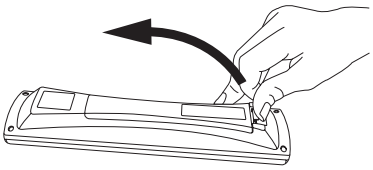
At least 1.6 m (PT-44LCX65) / 1.8 m (PT-52LCX65/ PT-52LCX35) / 2.2 m (PT-61LCX65/PT-61LCX35).

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

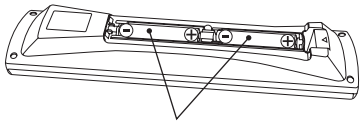
Remote Control Battery Installation

Requires two AA batteries (supplied).

1. While pressing in on the catch, open cover in direction of arrow.

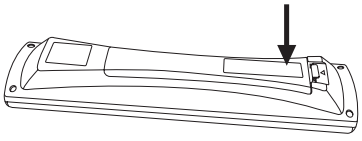


2. Install the batteries as shown in the battery compartment.
(Polarity + or - must match the markings in the compartment).



Two AA size

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

Helpful Hints:

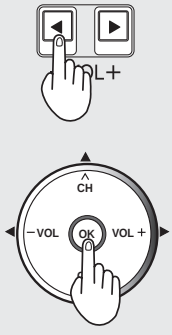
(1) For frequent remote control users, replace old batteries with Alkaline batteries for longer battery life.
(2) Whenever you remove the batteries, **you may need to reset the remote control infrared codes**. We recommend that you record the code on pages 58-59, prior to setting up the remote.

Emergency Alert System (EAS) Forced Tuning

If a CableCARD™ is installed, the cable MSO (multiple system owner/operator) may provide an Emergency Alert System message. These messages are intended to alert the general public of important local or national emergency situations. In the event of receipt of one of these messages, the Projection Display shall immediately tune to the channel as directed by the EAS message. If the channel has been blocked using the parental control, the parental blocking has priority over the forced tune.

Reset All Memory Functions

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



Press the VOL- button on the unit and OK button on the Remote control at the same time for more than 3 seconds. When reset is done, power shuts off automatically.

Glossary and Acronyms

CC (Closed Captioning)

EAS (Emergency Alert System)

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.

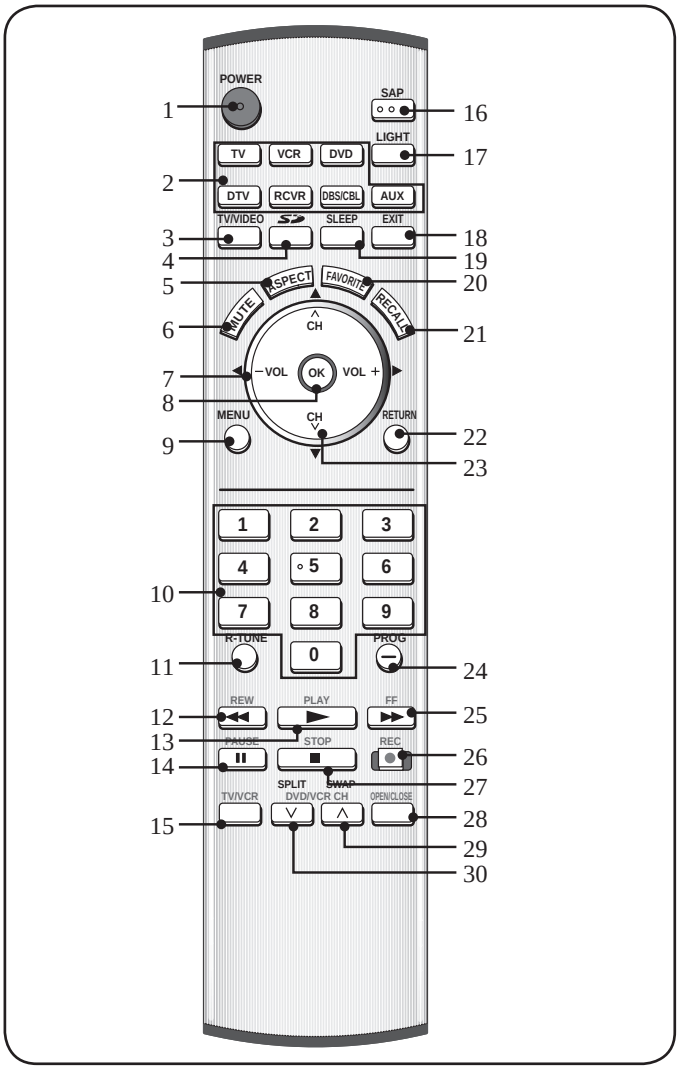
NTSC (National Television Systems Committee)
Standardization body that developed the Analog Television Terrestrial formats.

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

CableCARD™
A module that is required to receive premium digital services through the cable input.

Location of Controls

Illuminated Remote Control



1	**POWER**	Press to turn ON and OFF.
2	**TV**	Sets the remote to communicate with television or digital television.
	VCR, DVD, DTV, RCVR, DBS/CBL, AUX	Sets the remote to communicate with other devices.
3	**TV/VIDEO**	Changes Input source.
4	**SD**	Accesses the Photo Viewer feature.
5	**ASPECT**	Changes display aspect ratio.
6	**MUTE**	Press to mute sound.
7	**VOL -+ / ◄►**	Press to adjust TV sound and navigate in menus.
8	**OK**	Press to select menu and sub-menu items.
9	**MENU**	Press to display Main Menu.
10	**Number**	Press numeric keypad to select any channel or press to enter alphanumeric input in menus.
11	**R-TUNE**	Press to switch to previously viewed channel or input modes.
12	**REW**	While remote is in VCR or DVD mode, press to rewind.
13	**PLAY**	While remote is in VCR or DVD mode, press to play.
14	**PAUSE**	While remote is in VCR or DVD mode, press to pause.
15	**TV/VCR**	Press to switch to TV or VCR.
16	**SAP**	In analog mode, press to access audio modes (Stereo, SAP or Mono). In digital mode, press to access next audio track.
17	**LIGHT**	Lights all buttons. The selected mode button (TV, VCR, etc.) flashes.
18	**EXIT**	Press to exit menus.
19	**SLEEP**	Press to set unit to shut itself off after a preselected amount of time.
20	**FAVORITE**	Press to operate the Favorite channel list function.
21	**RECALL**	Press to display or delete Channel banner.
22	**RETURN**	Press to return one step backward in menus.
23	**CH ^v / ▲▼**	Press to change channels and navigate in menus.
24	**PROG**	Press after entering major channel numbers to enter minor (-) channel numbers.
25	**FF**	While remote is in VCR or DVD mode, press to fast forward.
26	**REC**	While remote is in VCR or DVD mode, press to record.
27	**STOP**	While remote is in VCR or DVD mode, press to stop.
28	**OPEN/CLOSE**	While remote is in DVD mode, press to open or close DVD tray.
29	**SWAP**	Press to swap Main screen with Split screen.
	DVD/VCR CH ^	While remote is in VCR or DVD mode, press to change channels for DVD or VCR.

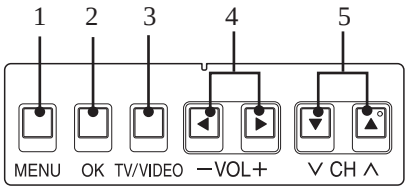
Note:

- This section describes TV mode only. For other modes, see pages 58-64.

Location of Controls (continued)

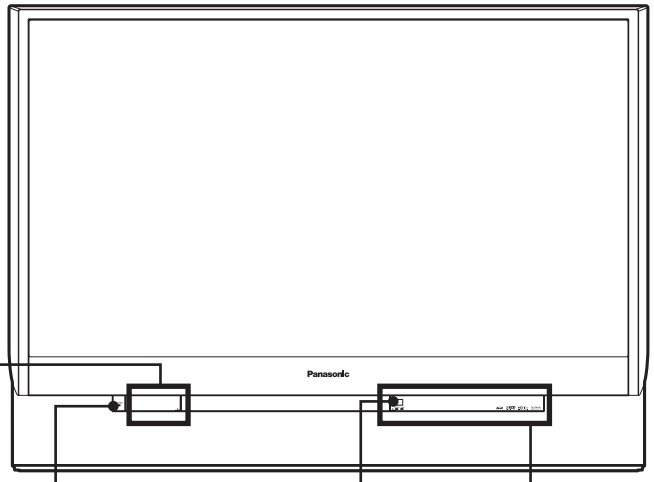
Controls and Terminals on the Projection Display

Front View <Model PT-52LCX35 unit shown>



1	**MENU**	Press to display Main Menu.
2	**OK**	Press to select menu and sub-menu items.
3	**TV/VIDEO**	Changes Input source.
4	**VOL –+ / ◀▶**	Press to adjust TV sound and navigate in menus.
5	**CH ∨∧ / ▼▲**	Press to change channels and navigate in menus.

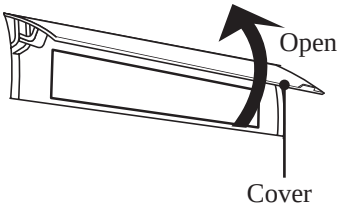
Note:
- Buttons listed above operate the same as remote control buttons of the same name.

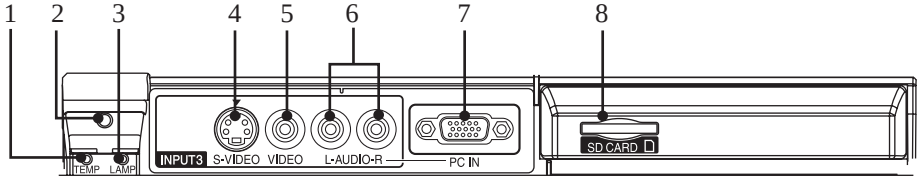


POWER button / POWER indicator

Remote Control Sensor

Using your finger, slide Cover in direction of arrow to open.



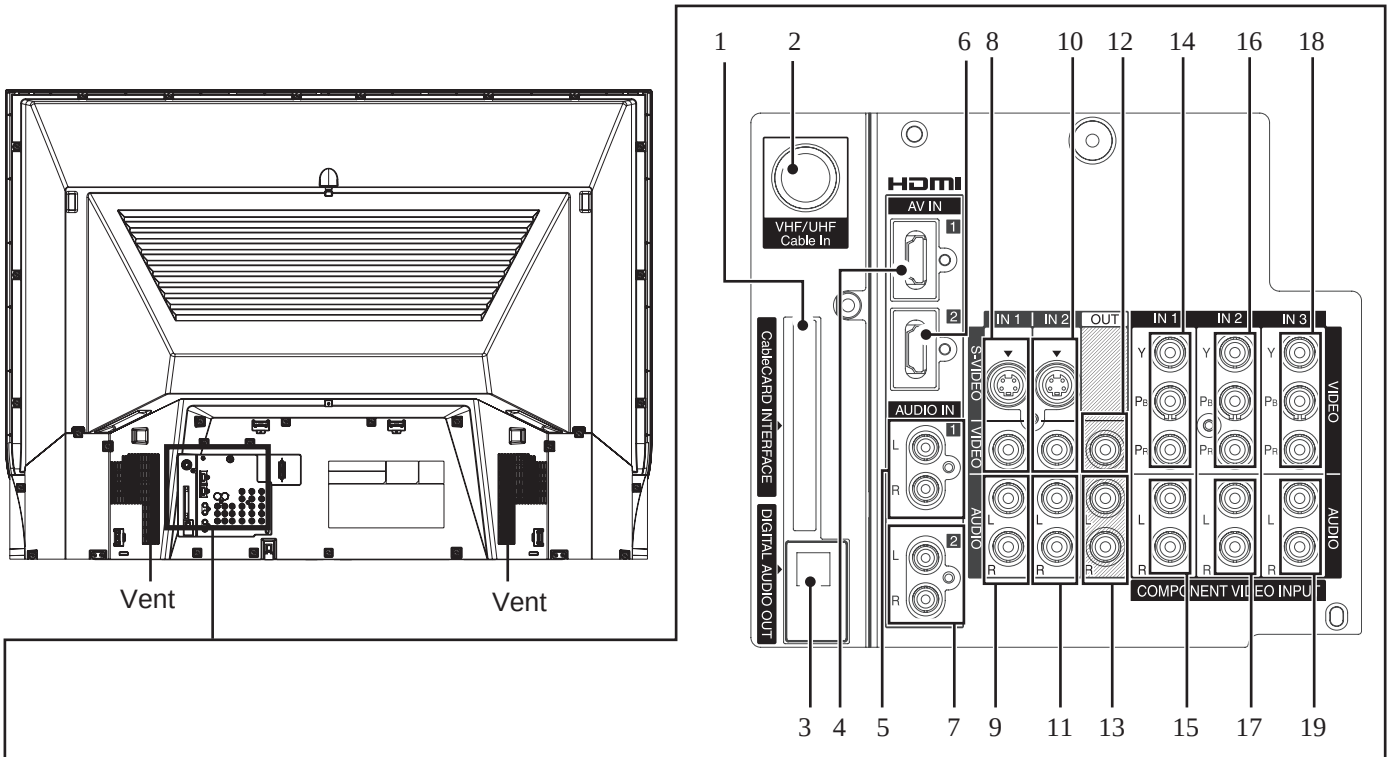


1	**TEMP indicator**	Lights up when temperature inside unit is abnormal. (P. 65)
2	**Remote Control Sensor**	Receives infrared signal from Remote Control.
3	**LAMP indicator**	Lights up when the lamp unit is malfunctioning. (P. 65)
4	**S-Video Input Connector 3**	Connect from other component. (Video 3)

5	**Video Input Connector 3**	Connect from other component. (Video 3)
6	**Audio Input Connector (Shared with both Video 3 and PC)**	Connect from other component. (Video 3)
		Connect from PC. (PC)
7	**PC (RGB) Input Connector**	Connect from PC. (PC)
8	**SD CARD Slot**	Insert SD Card.

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

Rear View <Model PT-52LCX35 unit shown>



1	**CableCARD™ INTERFACE**		Insert CableCARD™.
2	**VHF/UHF Cable In**		Input terminal for an antenna or cable box signal.
3	**DIGITAL AUDIO OUT**		Output audio signal (Digital)
4	**HDMI Input Terminal 1**	**Audio/ Video 1**	Connect from other component. (HDMI 1)
5		**Audio 1**	Connect from other component. (HDMI 1) (P. 22)
6	**HDMI Input Terminal 2***	**Audio/ Video 2**	Connect from other component. (HDMI 2)
7		**Audio 2**	Connect from other component. (HDMI 2) (P. 22)
8	**S-Video/Video Input Connector 1**		Connect from other component. (Video 1)
9	**Audio Input Connector 1**		Connect from other component. (Video 1)

* For models PT-52LCX35/PT-61LCX35

10	**S-Video/Video Input Connector 2**	Connect from other component. (Video 2)
11	**Audio Input Connector 2**	Connect from other component. (Video 2)
12	**Video Out Connector**	Output video signal
13	**Audio Out Connector**	Output audio signal (Analog)
14	**Component Video Input Connector 1**	Connect from other component. (Component 1)
15	**Audio Input Connector 1**	Connect from other component. (Component 1)
16	**Component Video Input Connector 2**	Connect from other component. (Component 2)
17	**Audio Input Connector 2**	Connect from other component. (Component 2)
18	**Component Video Input Connector 3**	Connect from other component. (Component 3)
19	**Audio Input Connector 3**	Connect from other component. (Component 3)

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).

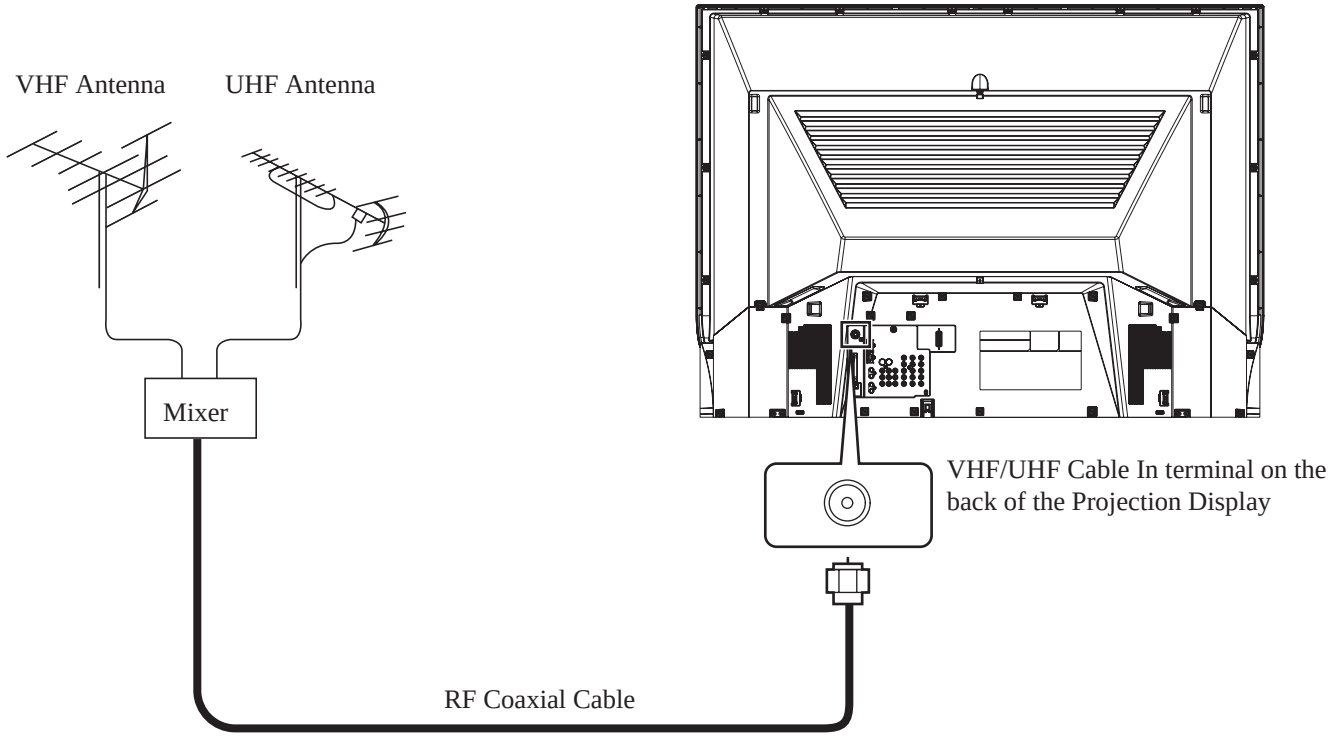
⚠ CAUTION

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

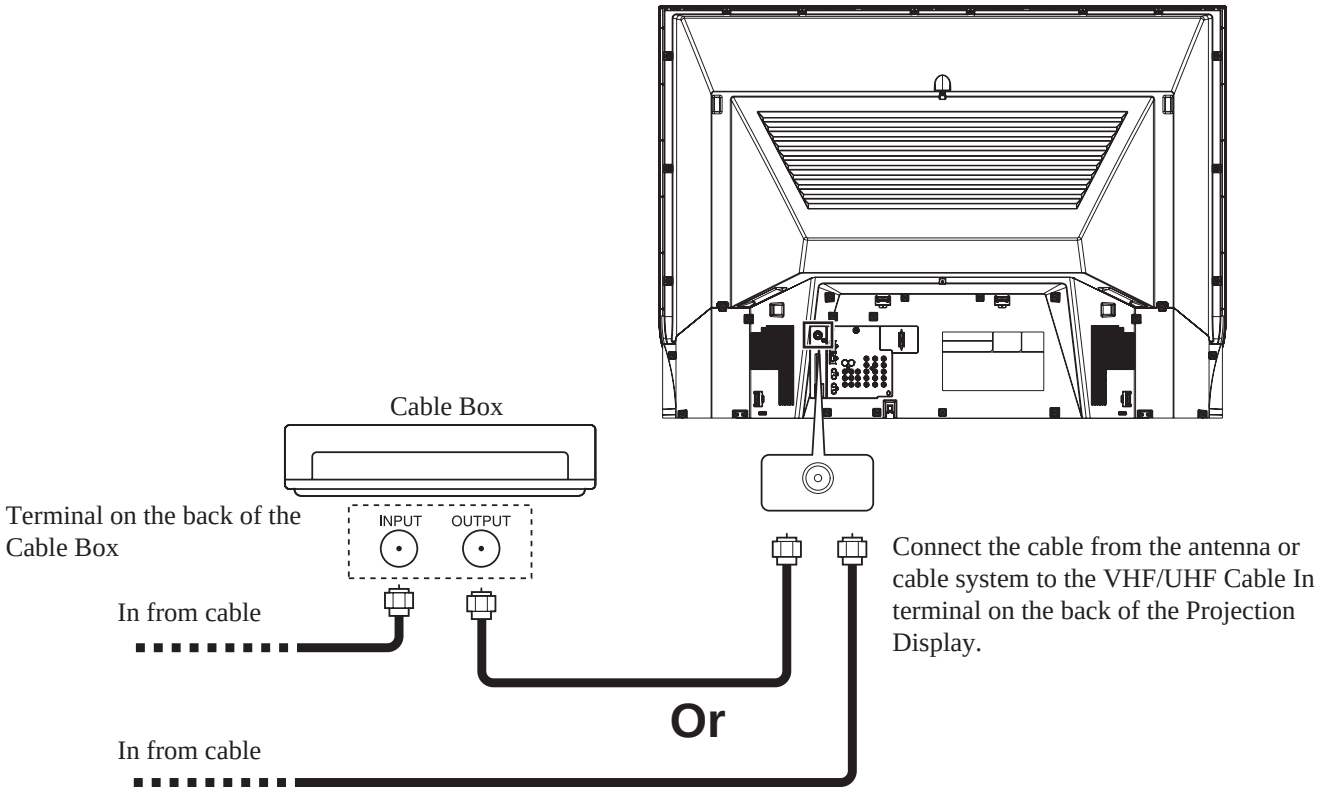
For proper reception of digital and analog VHF/UHF channels, an external antenna is required. For best reception, an outdoor antenna is recommended.



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.

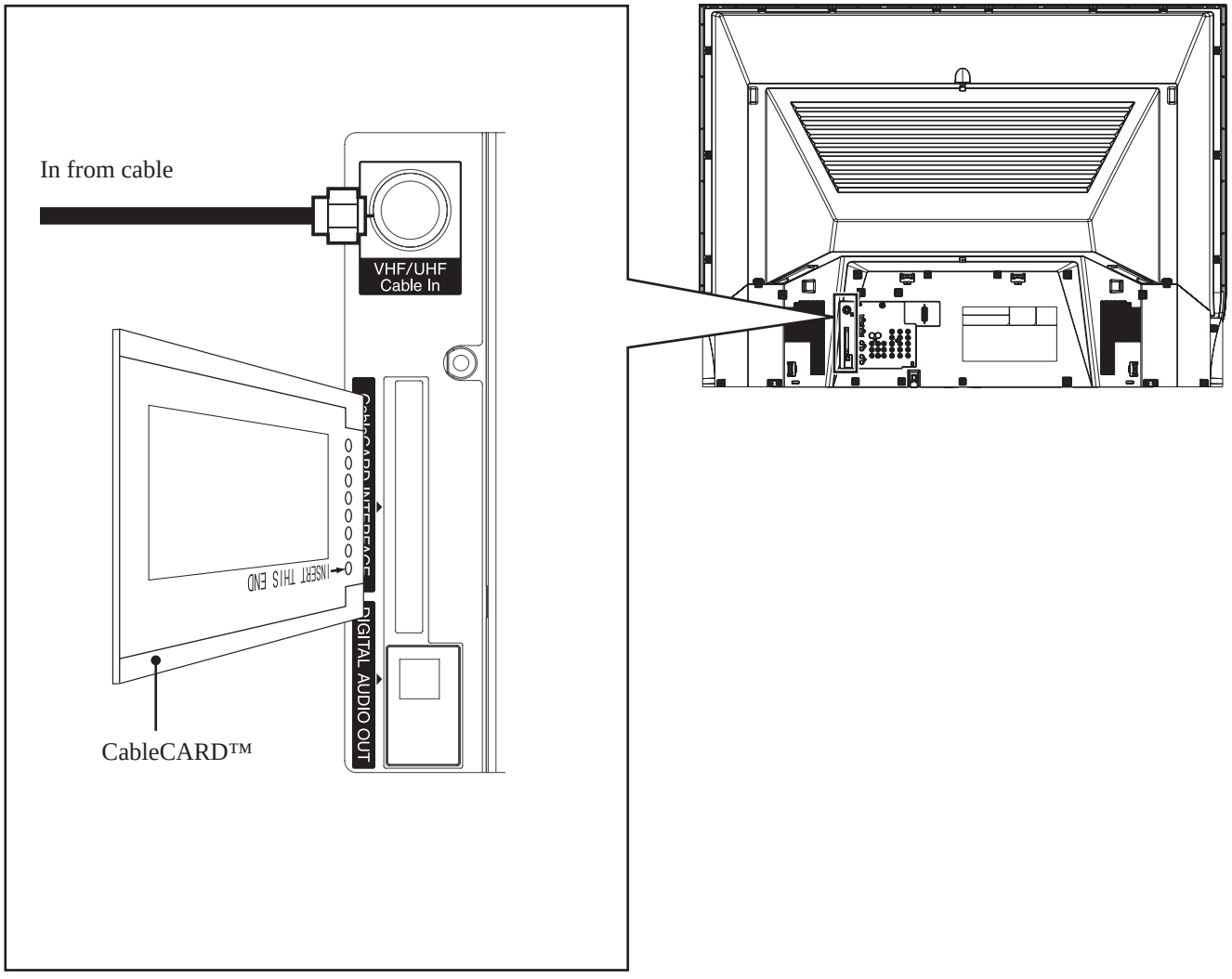
Installation (continued)

CableCARD™ Connection

This module (also called Point of Deployment (POD) module or Digital Cable Module (DCM)) allows you to tune digital and high definition cable channels through the cable antenna. Contact your local cable company for information regarding the availability and costs of CableCARD™ related services.

1 Connect the cable antenna to VHF/UHF Cable In input on the back of the unit.

2 Insert the CableCARD™ (upper side facing left) into the CableCARD™ INTERFACE on the back of the unit.
• Insert when Power is ON (green indicator light) and a MENU screen is not displayed.



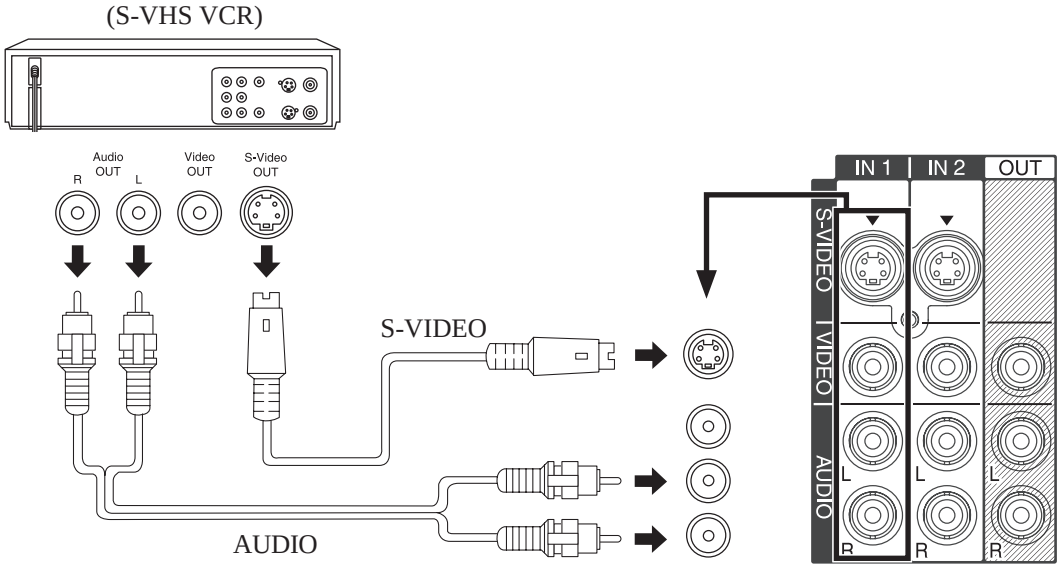
Notes:
• A Digital Cable Subscription is required.
• Do not insert a PC card into the CableCARD™ INTERFACE.
• Follow the instructions on screen.

If you experience keyboard or remote control function hang-up when using CableCARD™, unplug the unit and plug it back in and try the controls again. If this condition still exists, please call Panasonic Customer Call Center for further instructions.

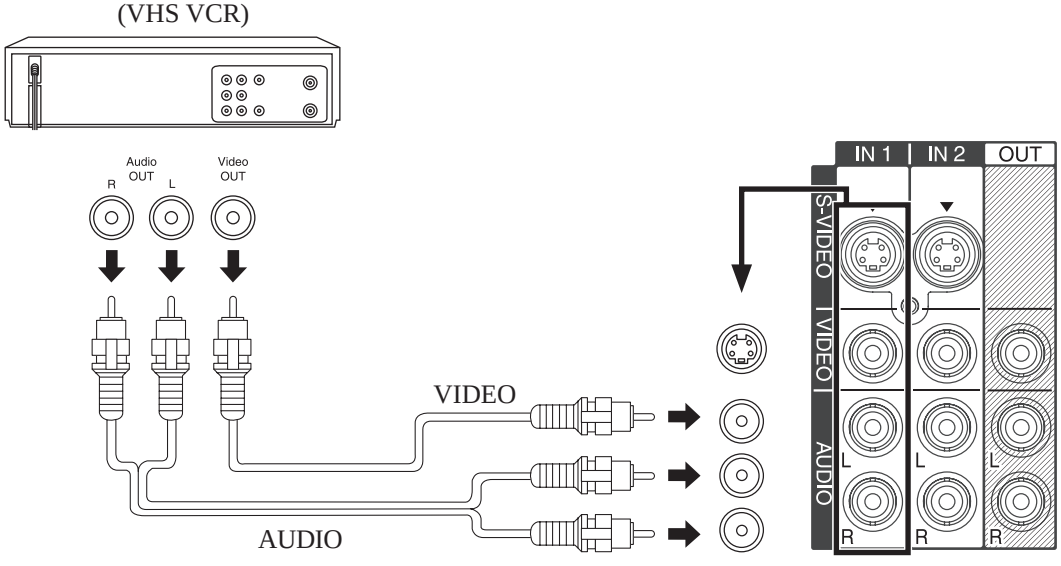
How to connect the “1, 2, 3” Input Terminals

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

Connects VCRs and other peripheral equipment



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



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

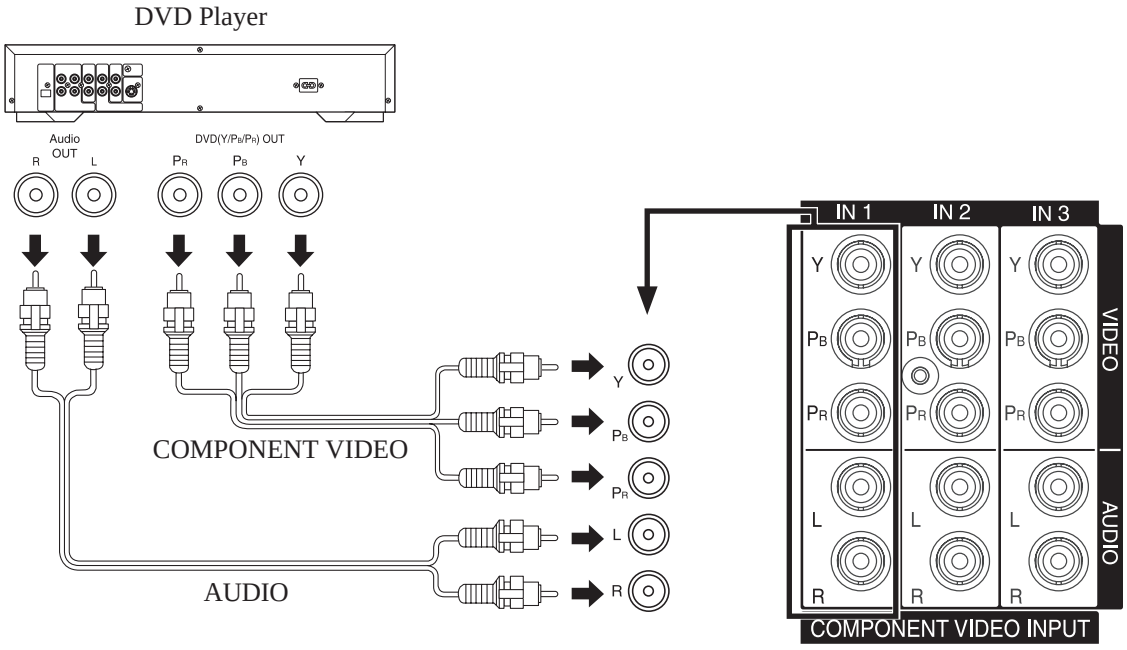
Notes:
- Select the desired VIDEO input position by pressing the TV/VIDEO button. (P. 32)
- When connecting video cables, priority is given to the S-Video cable when the S-Video input terminal and the video input terminal are connected at the same time.

Installation (continued)

How to connect the COMPONENT VIDEO Input Terminals

Because each Y, P_B, and P_R 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_B, P_R). 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 1-3 Terminals.
(P. 11)

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

Component Signals (Y, P_B, P_R) that can be Input

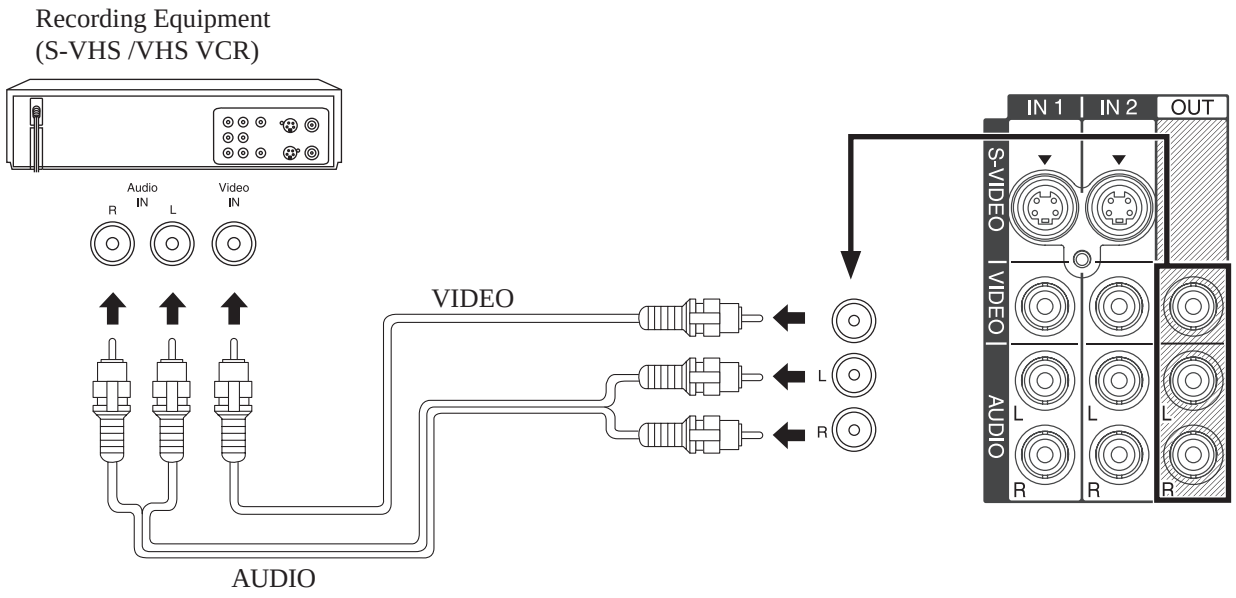
Mode type		Signal data		Information menu display
		No. of dots (H × V)	Vertical frequency (Hz)	
DTV Format Signals	480i	720 × 480	59.94/60.00	480i
	480p	720 × 480	59.94/60.00	480p
	720p	1 280 × 720	59.94/60.00	720p
	*1080i	1 920 × 1 080	59.94/60.00	1080i

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

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

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:

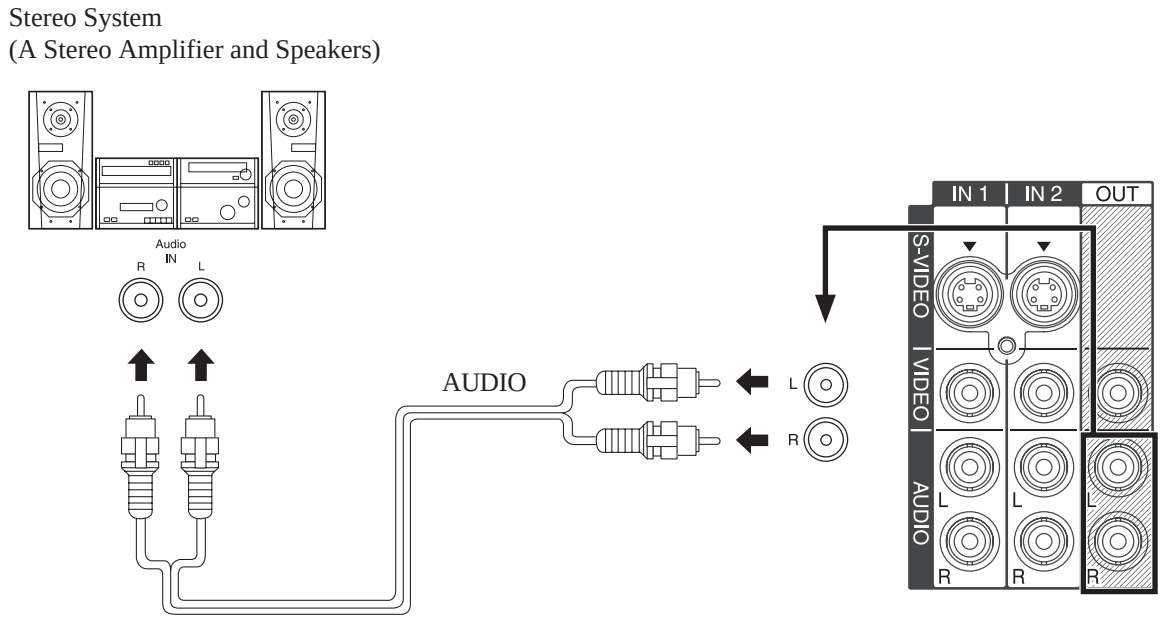
- This unit contains Video and Audio Outputs for the purpose of recording television programming to VCR. Due to license restrictions, if a device (STB, DVD, etc.) is connected to the HDMI input of the unit, no video or audio output is allowed.
- AV Out signal is available when receiving digital channel. 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.
- Even if unit is in Split mode, OUT terminals only output the main picture and sound signals. A sub-picture, etc., will not be output.
- AV terminals will not output Y, P_B, P_R, PC/HDMI IN or SD card signals.
- Certain program content output from the AV Out connector may have the Macrovision signal modification applied to its signal, preventing VCRs from recording this video signal.

Installation (continued)

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.



Audio Adjustments
- Select Speakers Off in Other Adjust menu under Audio menu. (See page 43.)
- Set amplifier volume to the preferred level.

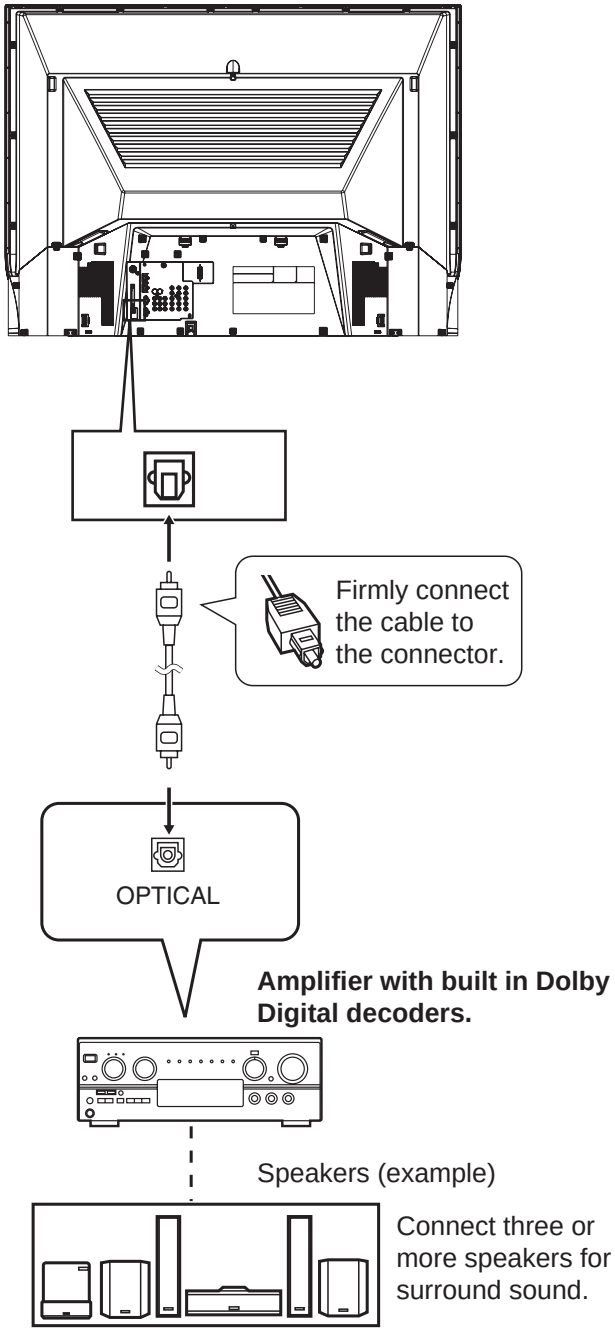
Notes:
- AUDIO OUT terminals cannot be connected directly to external speakers.
- AV terminals will not output Component Video, PC/HDMI IN or SD card signals.

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

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.

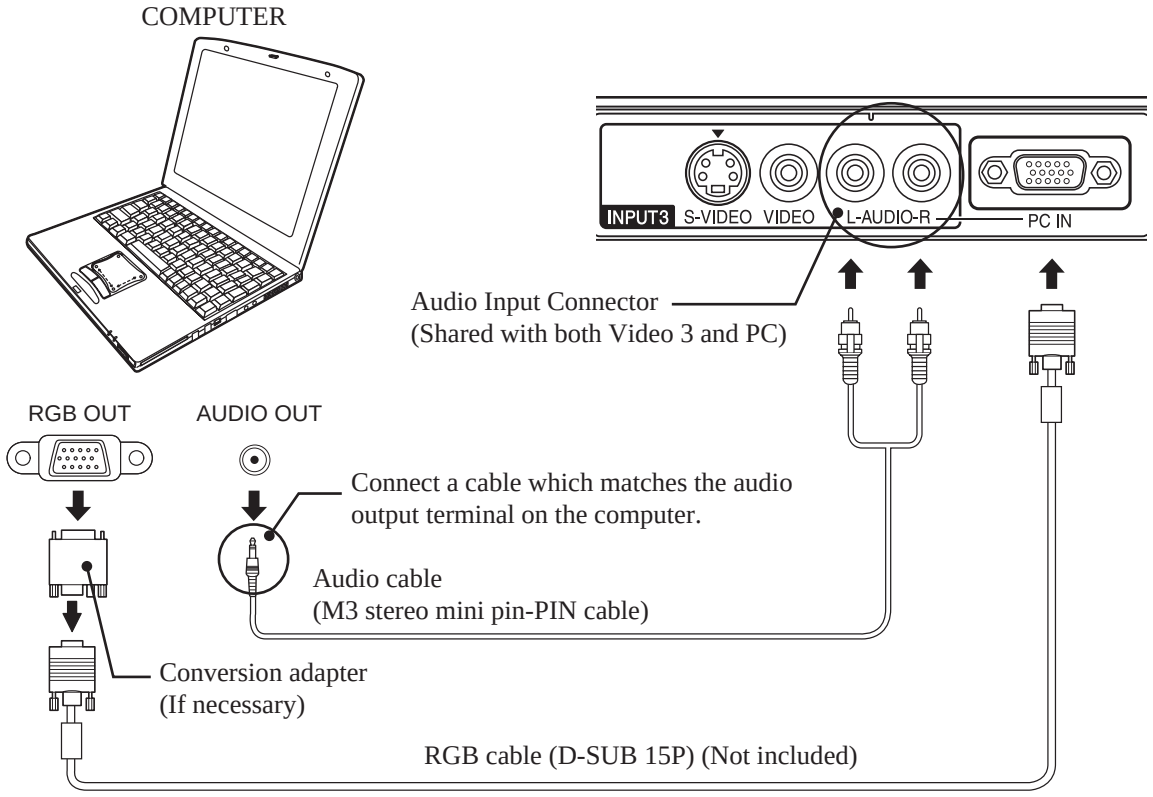
Notes:

- 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.

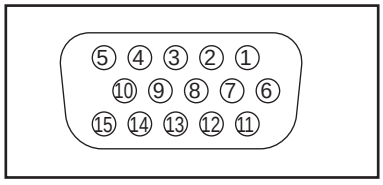
Installation (continued)

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 adapter 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)

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

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. In this case, "signal" will flash on-screen for about 5 seconds.

Mode type		Signal data			Information menu display
		No. of dots (H × V)	Horizontal frequency (kHz)	Vertical frequency (Hz)	
Personal Computer Signals	VGA400 (70 Hz)	640 × 400	31.47	70.08	VGA400
	VGA480 (60 Hz)	640 × 480	31.47	59.94	VGA480
	SVGA (60 Hz)	800 × 600	37.88	60.32	SVGA
	* XGA (60 Hz)	1 024 × 768	48.36	60.00	XGA

Notes:
- Input signals, other than those listed with a * mark, will give you a beautiful, stable picture.
- The D-SUB15P 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.

Installation (continued)

How to connect the HDMI input terminal

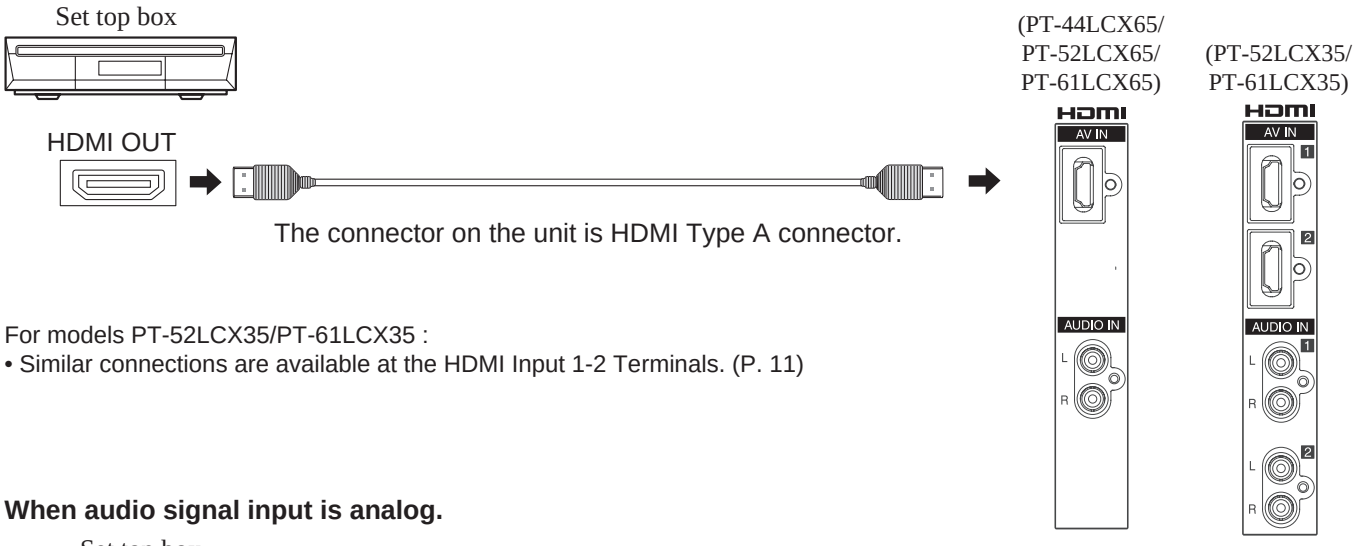
About HDMI

HDMI is the first all digital consumer electronics A/V interface that supports several uncompressed standard, enhanced and high definition video format 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.

Connection diagram

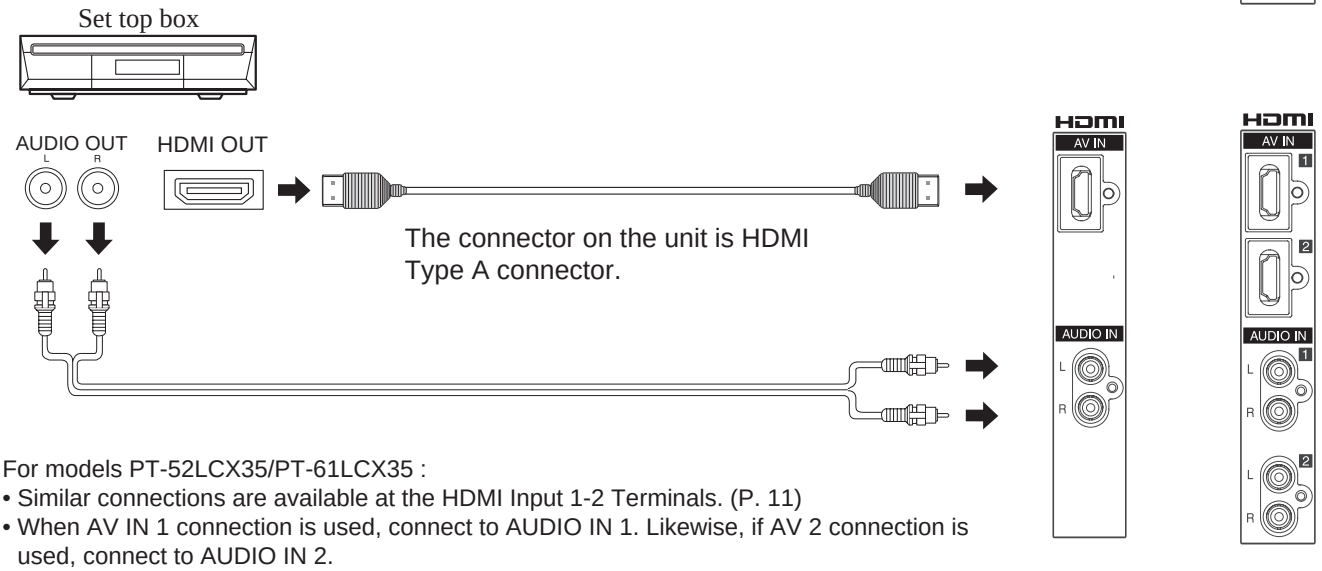
Follow the diagram below to connect the unit to a set top box or a DVD player.

When audio signal input is digital.



For models PT-52LCX35/PT-61LCX35 :
- Similar connections are available at the HDMI Input 1-2 Terminals. (P. 11)

When audio signal input is analog.



For models PT-52LCX35/PT-61LCX35 :
- Similar connections are available at the HDMI Input 1-2 Terminals. (P. 11)
- When AV IN 1 connection is used, connect to AUDIO IN 1. Likewise, if AV 2 connection is used, connect to AUDIO IN 2.

Notes:

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

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

Procedure

1 Connect the HDMI output from the set top box or a DVD player 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 terminals of this Projection Display, high-definition pictures can be displayed on the screen in their digital form. (This terminal is for use in the future when High-bandwidth Digital Content Protection DVD players and D-VHS are put on the market.)

Notes:
- Select the HDMI input position by pressing the TV/VIDEO button. (P. 32)
- The HDMI IN terminals 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 41.
- 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 connecting device to following format.

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” on page 43.

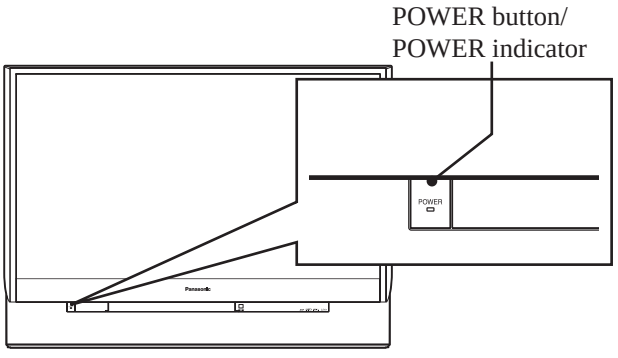
Power ON / OFF

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. 0.3 W (15W when CableCARD™ is inserted.) 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 extend lamp life, if there is no signal to the set's tuner for 5 minutes, the lamp will shut off automatically.

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

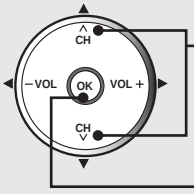
First Time Setup

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

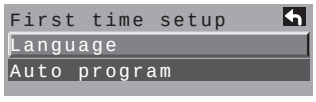
The language of the on-screen display is set to English as the factory setting.
You can select English, Spanish or French as the on-screen displays language.

1

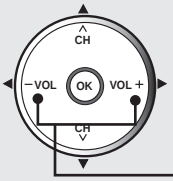


Press to select “Language”.

Press to display Language screen.



2



Press to select “English,” “Español” or “Français”.

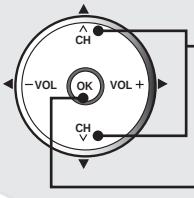
3

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

Auto program

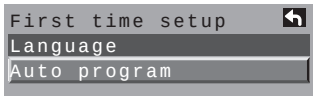
You can scan All (Analog and Digital) channels. If needed, follow the menus and procedures displayed on-screen for setting up the features. You can also make the settings in Setup menu.

1

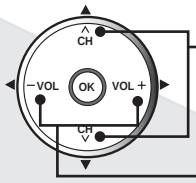


Press to select “Auto program”.

Press to display Auto program screen.

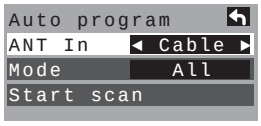


2

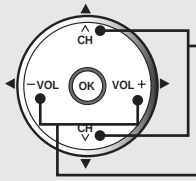


Press to select “ANT In”.

Press to select “Cable” or “Antenna”.

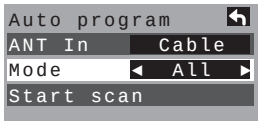


3

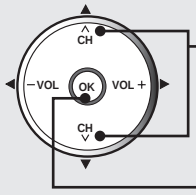


Press to select Mode.

Press to select “All” or “Analog”.

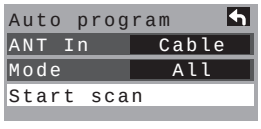


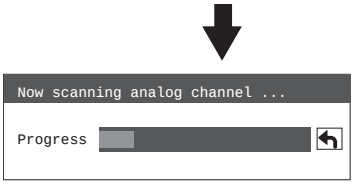
4



Press to select “Start scan”.

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



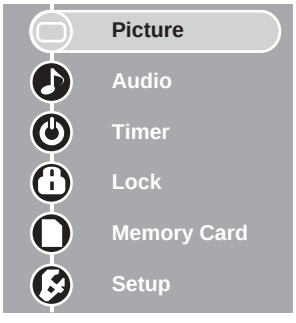


5 After Auto Program is complete, the unit will return to Manual Program mode. To place the channels that were located by auto scan in memory, move the cursor to “Apply” and press OK. (pp. 30-31).
If OK is not pressed after selecting OK, the channels will not be memorized.

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

Pressing MENU displays the Main Menu screen.



(PC input menu)

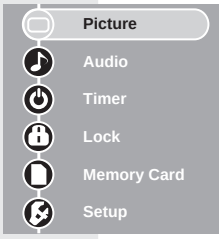
Depending on the signal being input, some items may or may not be adjustable and some functions may or may not be available.

Button operation during Menu display (Menu navigation)

■ Return to Main Menu.

Press

to display Main menu.



(PC input menu)

Note:

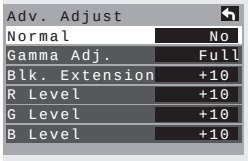
- While Main Menu (only) is displayed, pressing MENU will exit the menu screen.

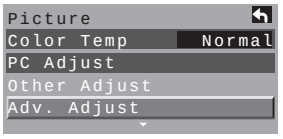
■ Return to previous level menu.

Press

to return to previous level menu.

Example:
If RETURN is pressed from Adv. Adjust Menu:





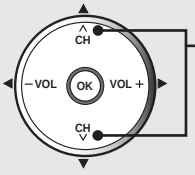
■ Return to normal picture.

Press

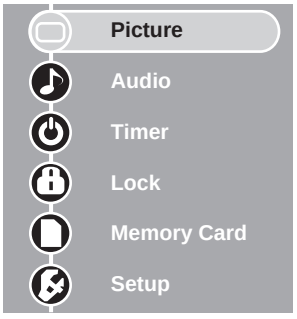
to exit menu.

Example of a procedure

1



Press to select the desired icon.



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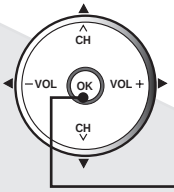
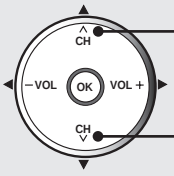
2



Press to enter the menu.

Picture	
Normal	No
Pic. Mode	Vivid
Picture	+10
Brightness	+10
Color	+10
Tint	+10
Sharpness	+10

3



Press to select desired menu item.

Picture	
Normal	No
Pic. Mode	Vivid
Picture	+10
Brightness	+10
Color	+10
Tint	+10
Sharpness	+10

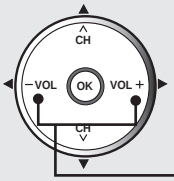
Next Icon

Picture	
Color Temp	Normal
PC Adjust	
Other Adjust	
Adv. Adjust	

Sub Menu Field

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

4

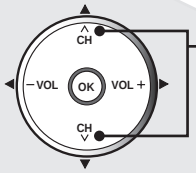


Press to adjust or set desired menu item.

Color	+5

Other Adjust sub-menu.

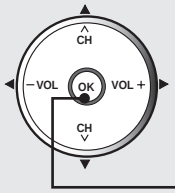
5



Press to select Other Adjust.

Picture	
Color Temp	Normal
PC Adjust	
Other Adjust	
Adv. Adjust	

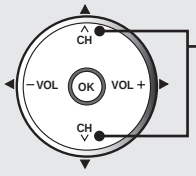
6



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

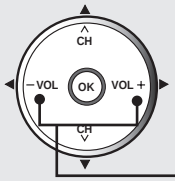
7



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

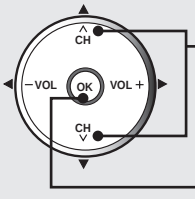
Tuning channels

Switching languages for display

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

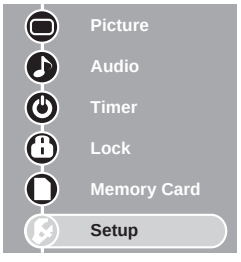
Press MENU to display the Main Menu screen.

1

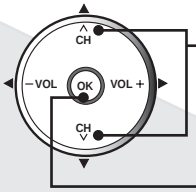


Press to select “Setup” icon.

Press to display the Setup menu.

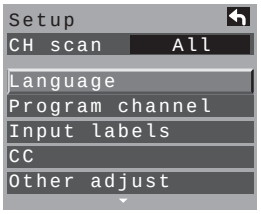


2

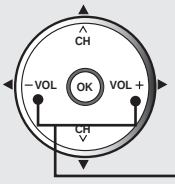


Press to select “Language”.

Press to display Language screen.



3



Press to select “English,” “Español” or “Français”.

4

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

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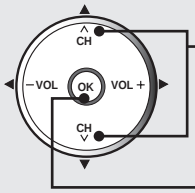
Automatic program setting

Automatically searches and adds receivable channels to memory.

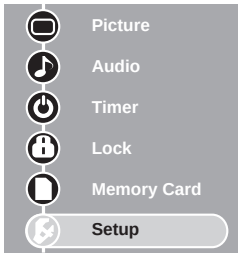
Press MENU to display the Main Menu screen.

1

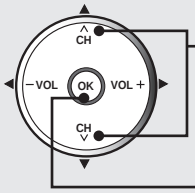


Press to select “Setup” icon.

Press to display the Setup menu.

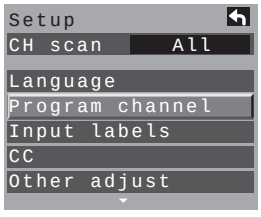


2

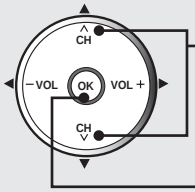


Press to select “Program channel”.

Press to display the Program channel menu.

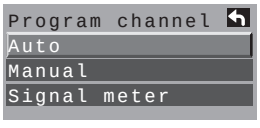


3

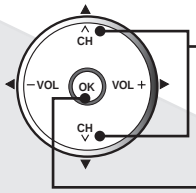


Press to select “Auto”.

Press to enter the Auto menu.

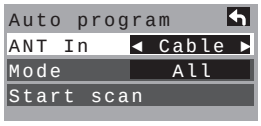


4

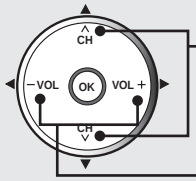


Press to select “ANT In”.

Press to select “Antenna” or “Cable”.

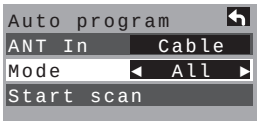


5

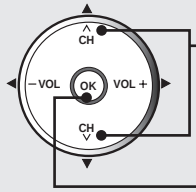


Press to select “Mode”.

Press to select “All” or “Analog”.

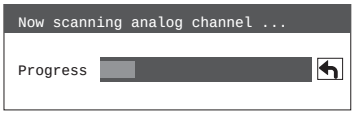


6



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. (pp. 30-31).
If OK is not pressed after selecting OK, the channels will not be memorized.

Notes:

- If “Cable” or “Antenna” is selected and a CableCARD™ is not inserted, Auto program will perform Scan All.
- If “Cable” is selected and a CableCARD™ is inserted, Auto scan will not be available.
- 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.

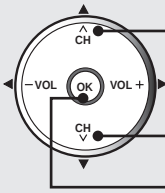
Tuning channels (continued)

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.

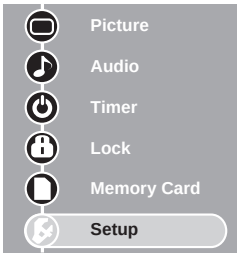
Press MENU to display the Main Menu screen.

1

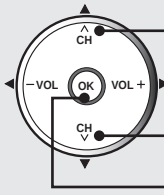


Press to select “Setup” icon.

Press to display the Setup menu.

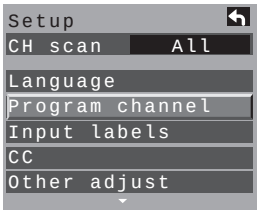


2

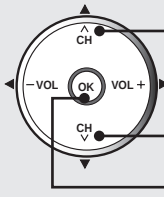


Press to select “Program channel”.

Press to display the Program channel menu.

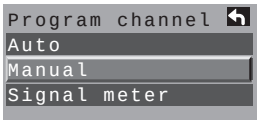


3



Press to select “Manual”.

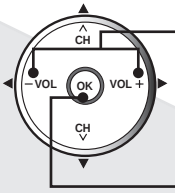
Press to enter the Manual program screen.



Note:

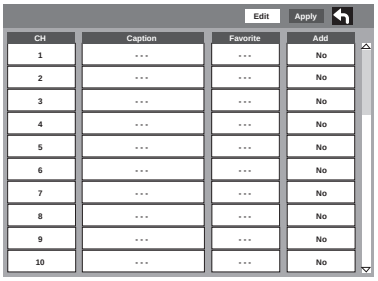
- If Lock (p. 45) has been set, you must enter your password to display the Manual Program screen.

4

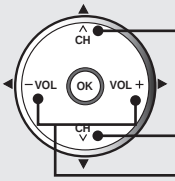


Press to select “Edit”.

Press to enter the edit mode.



5



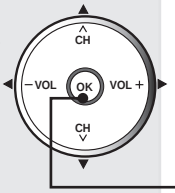
Press to select the desired preset channel line.

Press to select edit area. “CH,” “Caption,” “Favorite,” “Add”.

■ Edit (Caption)

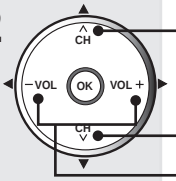
When a preset Caption has been entered.

1



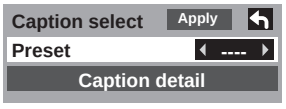
Press to enter the Caption select screen.

2

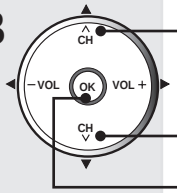


Press to select “Preset”.

Press to select Broadcast station.



3

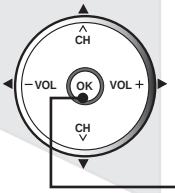


Press to move cursor to “Apply”.

Press to enter the Caption.

When selecting a desired Caption manually.

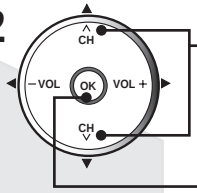
1



Press to enter the Caption select screen.

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

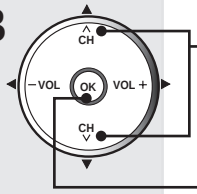
2



Press to select “Caption detail”.

Press to display the Caption input screen.

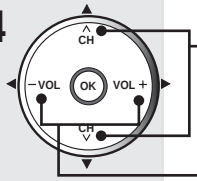
3



Press to move cursor to “Caption”.

Press to enter input field.

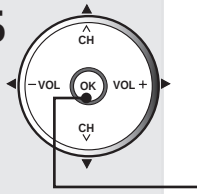
4



Press to select the character to input/ change.

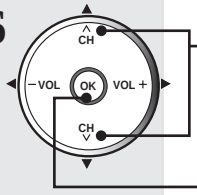
Press to move to the character to input/ change.

5



Press to enter you selection.

6

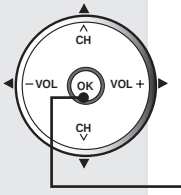


Press to move cursor to “Apply”.

Press to enter the Caption.

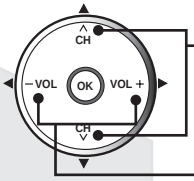
■ Edit (Favorite)

1



Press to enter the Favorite screen.

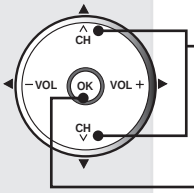
2



Press to select “Favorite”.

Press to select Favorite number.

3

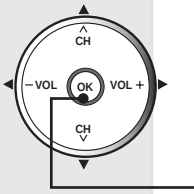


Press to move cursor to “Apply”.

Press to enter Favorite and return to Edit screen.

■ Edit (Add)

Setting of register/delete in Program channel.

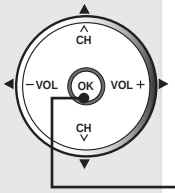


Press to select “Yes” or “No”.

■ Preview (CH)

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

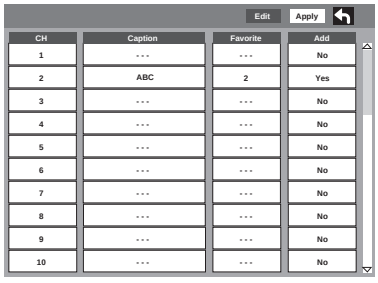
- This preview only appears if a channel was added by selecting “Yes.”



Press to display the selected program.

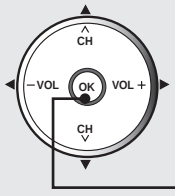
6

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.

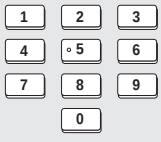
Projection Display operation

Selecting Input Mode

1

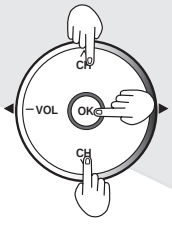
Press to display the Input select menu.

- 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.

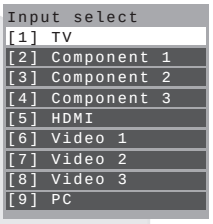
Or



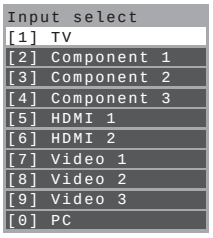
Press to select the input of your choice, then press “OK”.

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

(PT-44LCX65/PT-52LCX65/PT-61LCX65)



(PT-52LCX35/PT-61LCX35)



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

*1 For models PT-44LCX65/PT-52LCX65/PT-61LCX65
*2 For models PT-52LCX35/PT-61LCX35

Note:

- If SKIP is set as the Input Label setting, the mode will not be changed. (P. 55).

■ Card input mode (Photo Viewer) is selected.

Press to display Photo Viewer mode.

Photo (Photo Viewer)	Signal of source connected to CARD SLOT is displayed.

Rapid Tuning

Switches between the current and last channel or input modes.

Press to switch to previously viewed channel or input modes.

Note:

- When Photo Viewer (p. 49) or Split screen (p. 37) is used, Rapid Tuning is not available.

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

Using the CH/VOL Button

■ **Select desired channel:**
Press CH ∧∨ or NUMBER keys.

■ **Adjust to desired volume level:**
Press VOL + or VOL -.

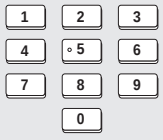
Notes:
- The channel number and volume level are stored even after the unit is turned off.
- Power consumption can be reduced if the volume level is lowered.

Channel and Program Tuning

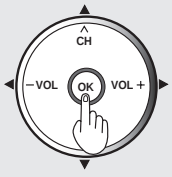
Channel and Program tuning in digital television differs from conventional television. With DTV, many programs can exist within a single 6 MHz channel. These channels behave as sub-channels within a single channel. When tuning to a digital channel, the unit will also tune to a program and will indicate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

1 

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.

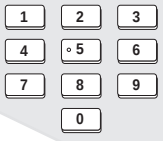
2 

Direct Tuning Example

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

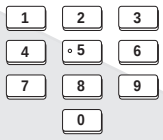
Note:
- If, during channel selection, no action is taken for several seconds, the Channel Banner is exited and the currently input channel is automatically selected.

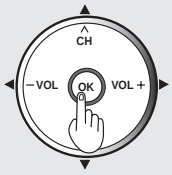
Select digital channel

1 

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.

2

3 

4 

Direct Tuning Example

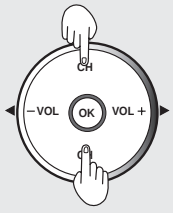
Step	Action	Channel Banner Display
1	Press 1	1
2	Press 5	15
3	Press -	15-
4	Press 1	15-1
5	Press OK	15-1

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 Number

15-2
ABC - HD

Station identifier

Note:
- The Station identifier is not displayed when you use Split Screen mode.

Channel Banner: Maximized

Press RECALL to maximize the displayed channel banner.

Channel, Program and Station identifier

Program title

Closed Caption
Rating
Picture mode setting
Time remaining in Sleep Timer
SAP indication
Signal resolution
Aspect

Basic Operation

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

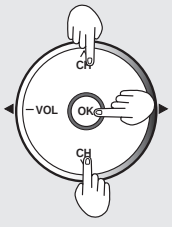
1 Display the channel to be placed on the Favorites list.

2

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]
```

3



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.

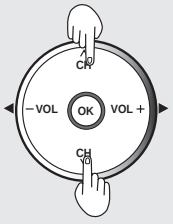
Use Favorite Feature

1

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

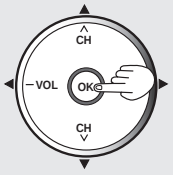
```
Favorite 1/3
[1]
[2]
[3]
[4]
[5]
[6]
[7]
[8]
[9]
[0]
```

2



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.

3



Press OK to display the highlighted channel.

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

Select Audio Mode for TV Viewing

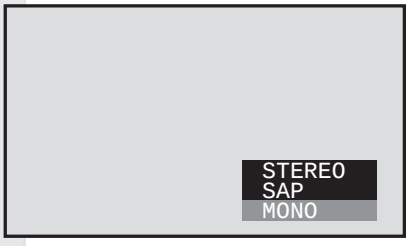
Digital mode

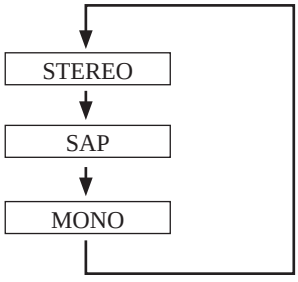
Press SAP to select the next audio track (if available) when receiving a digital channel.

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 back ground.

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.

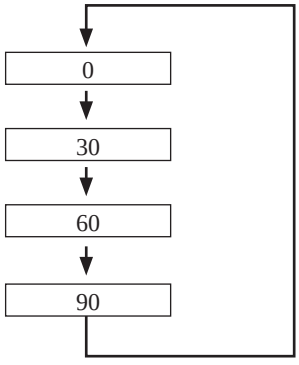
MONO broadcast
Normal monaural sound broadcast.

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:

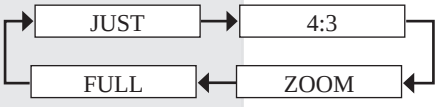
- Pressing RECALL with sleep timer set displays remaining time. This can also be done by pressing SLEEP. If you continue to press SLEEP, the sleep time setting mode will be entered.
- Sleep time may also be set from the Menu screen. (P. 44).
- The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to turn off.

ASPECT Controls

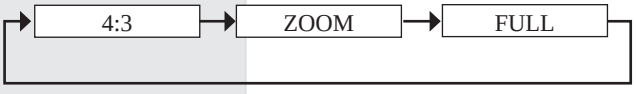
Changing the aspect mode

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

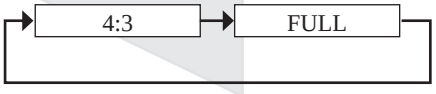
The aspect mode is changed each time when ASPECT is pressed.



- When a 480p signal is being received, the mode switches between 4:3, ZOOM, and FULL only.

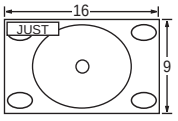
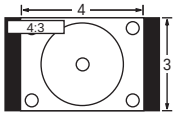
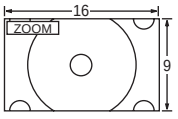
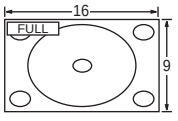


- During PC input, the mode switches between 4:3 and FULL only.



Notes:

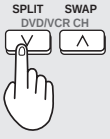
- When a 1080i or 720p signal is being received, the mode is set to FULL, and aspect switching is not available.
- When input mode is CARD, the mode is set to 4:3, and aspect switching is not available.
- If the mode selected does not match the aspect ratio of the input signal, the original picture quality 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 will display a 4:3 picture at its standard 4:3 size.
ZOOM		ZOOM mode magnifies the central section of the picture.
FULL		FULL will display the picture at its maximum size but with sight elongation.

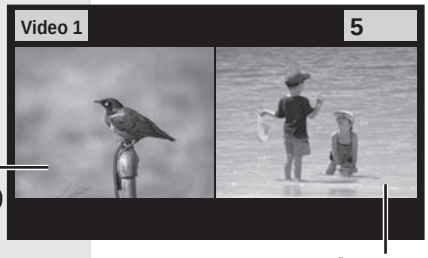
For assistance, please call : 1-888-VIEW PTV(843-9788) or, contact us via the web at: http://www.panasonic.com/contactinfo

Split screen

Splitting the screen

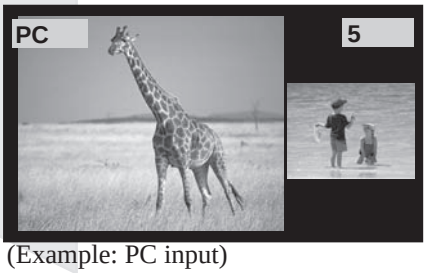


Press to split.
(The previously selected screen appears on the left.)



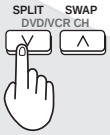
Left screen
(Main picture)

Right screen
(Sub picture)



(Example: PC input)

■ Returning to one screen (Left screen)



Press to return.

Notes:

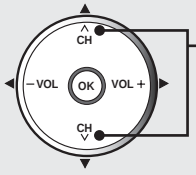
- Sound from the Left screen is output from the speakers on the Projection Display set.
- When the screen is split, signal of the Left screen is output from the rear monitor output terminal. (P.17).
- The left and right screens are processed by individual circuits and, therefore, may vary in image quality.
- Split screen returns to single screen when the unit is turned off.
- The right and left screens essentially cannot display the same picture at the same time.
- Photo Viewer cannot be displayed using the Split screen function.
- The aspect mode can not be changed using the Split screen function.

■ Caution when HDMI/PC is input

- An HDMI signal and a PC input signal cannot be displayed at the same time on the left and right sides of the screen.
- For models PT-44LCX65/PT-52LCX65/PT-61LCX65:
  While HDMI or PC is input and Split feature is used, if the HDMI/PC signal is lost, both the left and right screens will display a black background.
- For models PT-52LCX35/PT-61LCX35:
  An HDMI 1 input signal and an HDMI 2 input signal cannot be displayed at the same time on the left and right sides of the screen.

Changing the channel

The channel on the TV display side of the screen can be changed.



Press to select the desired channel.

Example:
During SPLIT SCREEN NORMAL

Note:

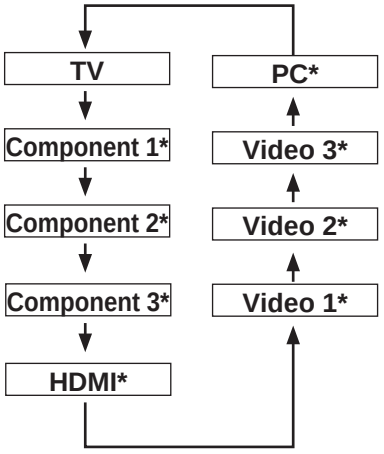
- If neither the left or right screen is displaying TV, pressing CH buttons places the left screen in TV mode.

Split screen (continued)

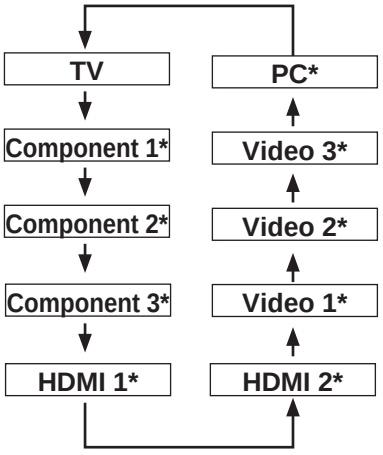
Select desired input mode of the Right screen

Press to select the desired input mode.

(PT-44LCX65/PT-52LCX65/PT-61LCX65)

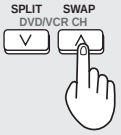


(PT-52LCX35/PT-61LCX35)

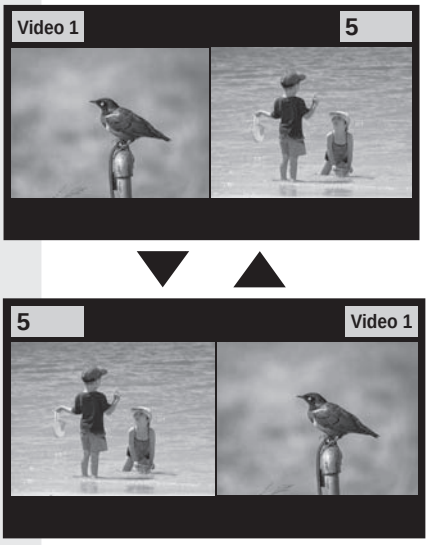


* If SKIP is set as the Input Label setting, the mode will not be changed. (P. 55).

Swapping left and right screens



Press to swap.

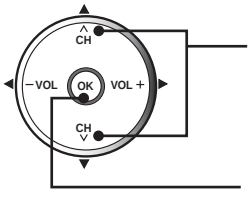


Note:

- Picture quality may change according to the combination of signals input to the left and right screens.

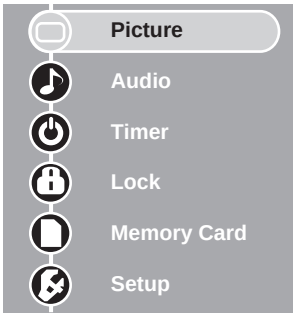
Picture Adjustments

Press MENU to display the Main Menu screen.



Press to select “Picture” icon.

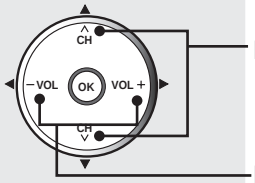
Press to display the Picture menu.



(PC input menu)

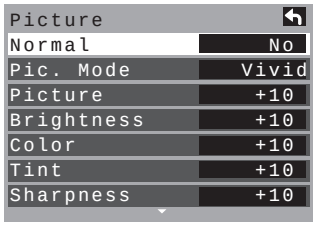
Picture Menu is inaccessible when no signal is present.

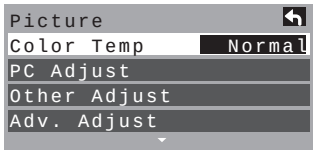
Normal / Picture / Brightness / Color / Tint / Sharpness / Color Temp



Press to select each item.

Press to adjust each item.



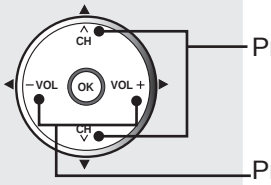


Item	Explanations
Normal	Resets all picture adjustments to factory default settings.
Picture	Adjusts white areas of picture.
Brightness	Adjusts dark areas of picture.
Color	Adjusts desired color intensity.
Tint	Adjusts natural fresh tones.
Sharpness	Adjusts clarity of outline detail.
Color Temp (temperature)	To increase or decrease Warm (red) and Cool (blue) colors to suit personal preferences.

Picture Adjustments (continued)

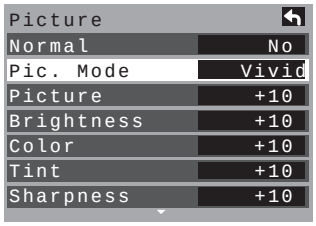
Picture Mode

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.



Press to select “Pic. Mode”.

Press to select picture mode.

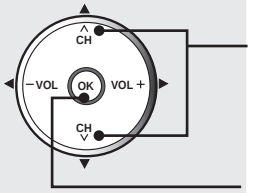


- Vivid - This is the default mode, It provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard - Recommended for normal viewing conditions with subdued room lighting.
- Cinema - Select this mode for watching movies in a darkened room. It provides a soft, film-like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

PC Adjust

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

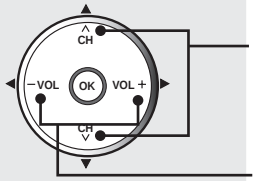
1



Press to select “PC Adjust”.

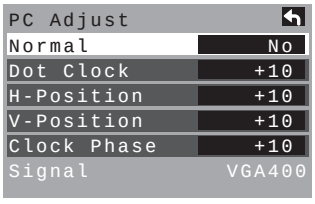
Press to display the PC Adjust menu.

2



Press to select each item.

Press to adjust each item.



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.
Signal	Display input signal.

Note:

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

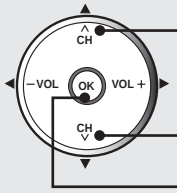
For assistance, please call : 1-888-VIEW PTV(843-9788) or, contact us via the web at: http://www.panasonic.com/contactinfo

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

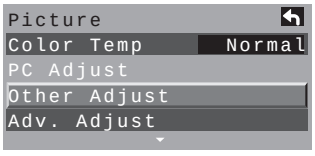
Other detailed picture adjustments can be made.

1

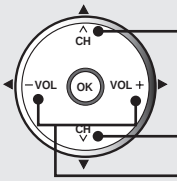


Press to select “Other Adjust”.

Press to display the Other Adjust menu.

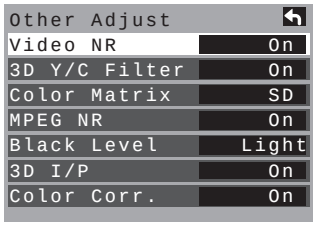


2



Press to select each item.

Press to adjust each item.



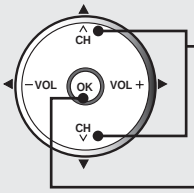
Item	Explanations
Video NR	Reduces noise, commonly called snow. Leave off when receiving a strong signal.
3D Y/C Filter	Minimizes noise and cross-color in the picture.
Color Matrix	Select SD or HD. • SD : Color matrix is set same as a normal TV system (NTSC). • HD : Color matrix is set same as a High-Definition system (ATSC). 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. **Notes:** • This feature is available only with 480p signals. • The default setting with HDTV signals (720p or 1080i) is HD color matrix. • The default setting with NTSC signals (480i) is SD color matrix.
MPEG NR	Unique noise to DVD, STB, etc. will be reduced.
Black level	Select Light or Dark [Dark : Analog channel/ VIDEO/480i, Light : 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

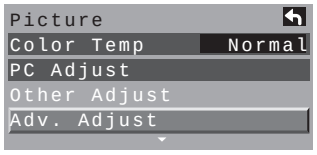
Highly-detailed adjustments can be made.

1

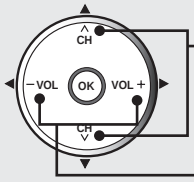


Press to select “Adv. Adjust.”

Press to display the Advanced Adjust menu.

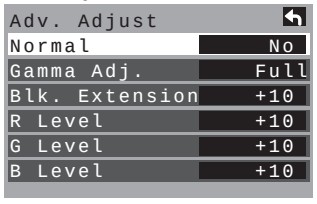


2



Press to select each item.

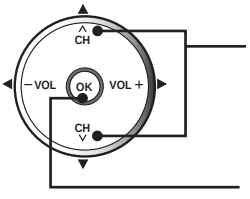
Press to adjust each item.



Item	Explanations
Normal	Resets all picture adjustments to factory default settings.
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. (PC input only.)
G Level	Adjusts the green component. (PC input only.)
B Level	Adjusts the blue component. (PC input only.)

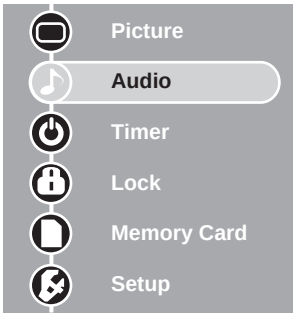
Audio Adjustments

Press MENU to display the Main Menu screen.



Press to select “Audio” icon.

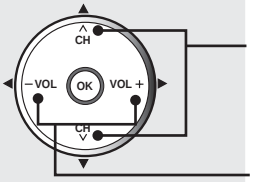
Press to display the Audio menu.



(PC input menu)

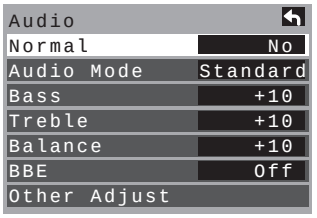
If unit is set to AI Sound “On,” BBE “On,” or “VIVA 3D,” the other adjust items will not function.

Normal / Bass / Treble / Balance



Press to select each item.

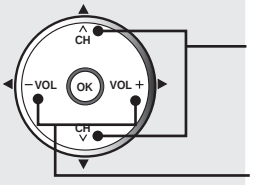
Press to adjust each item.



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.

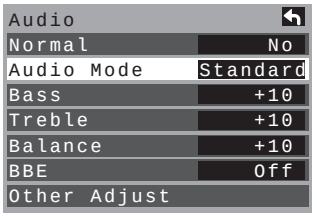
Audio Mode

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.

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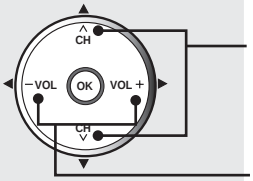
Depending on the signal being input, some menu items may or may not be adjustable and some functions may or may not be available.

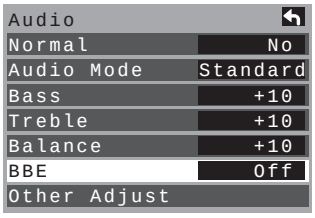
BBE

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



Press to select "BBE".

Press to select BBE setting.

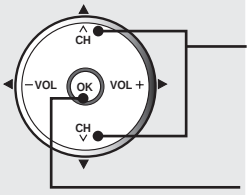


- VIVA 3D — BBE VIVA 3D - BBE VIVA provides a musically accurate natural 3D image with hi-fi sound. The clarity of the sound is improved by BBE while the width, depth and height of the sound image are expanded by BBE's proprietary 3D sound processing. BBE VIVA is compatible with all TV programs including news, music, dramas, movies and sports as well as electronic games. BBE VIVA enhances the surround sound effect, while maintaining the clarity of dialogue.
- On — BBE - Sound technology enhances speech intelligibility and restores the dynamic range of musical passages to provide outstanding natural sound.
- Off — Sound is normal.

Other Adjust

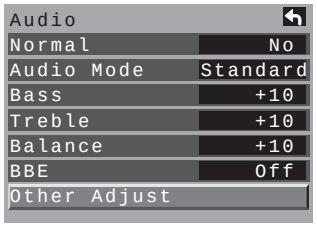
Other detailed audio adjustments can be made.

1

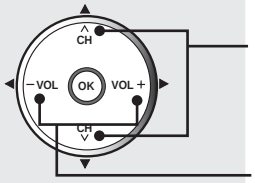


Press to select "Other Adjust".

Press to display the Other Adjust menu.



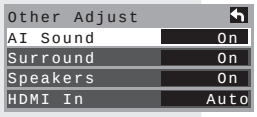
2



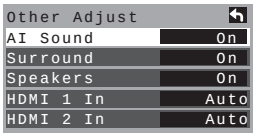
Press to select each item.

Press to adjust each item.

(PT-44LCX65/PT-52LCX65/PT-61LCX65)



(PT-52LCX35/PT-61LCX35)



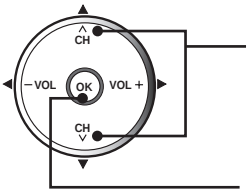
Item	Explanations
AI Sound	Equalize overall volume levels across all channels. (AI sound is not available in VIDEO mode).
Surround	Enhances audio response when listening to stereo.
Speakers	This feature is used to turn TV speakers On or Off. • On - TV speakers operate normally. • Off - TV speakers off.
HDMI In*1 or HDMI 1 In / HDMI 2 In*2	Perform input switching of analog audio input and digital audio input when using the HDMI terminal. Auto : Automatically performs digital/ analog input switching according to the input signal type. Digital : Forces use of digital audio input signal transmitted via the HDMI terminal. Analog : Forces use of analog audio input signal transmitted via separate RCA terminals.

*1 For models PT-44LCX65/PT-52LCX65/PT-61LCX65
*2 For models PT-52LCX35/PT-61LCX35

Notes:
- Sound signals are output from the rear AUDIO OUT and DIGITAL AUDIO OUT terminal. (PP. 18-19).
- When volume is adjusted or the MUTE button is pressed from the Remote Control, a message will be displayed.

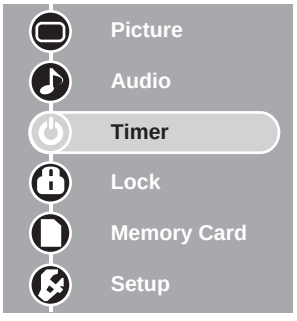
Sleep Timer Feature

Press MENU to display the Main Menu screen.



Press to select “Timer” icon.

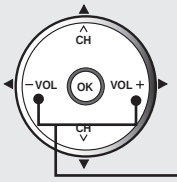
Press to display Timer menu.



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

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”.

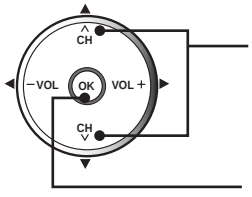
Notes:

- 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.

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

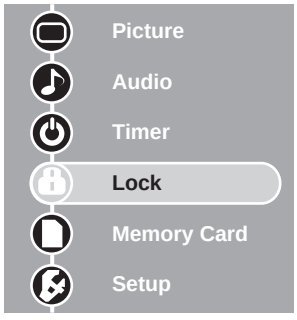
Lock Feature

Press MENU to display the Main Menu screen.



Press to select “Lock” icon.

Press to display the options in the Lock menu.



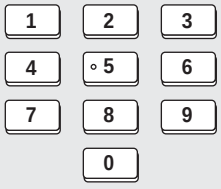
You will be asked to enter your password each time you display the Lock menu.

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.

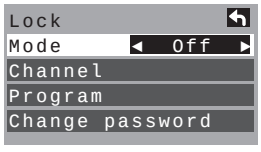
```
Create password.

        - - - -
```

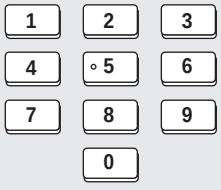
```
Enter new password, again.

        - - - -
```

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



■ Enter Secret Code



Press NUMBER keys to enter your secret code.

```
Enter password.

        - - - -
```

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

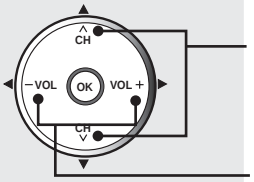
Notes:

- 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)

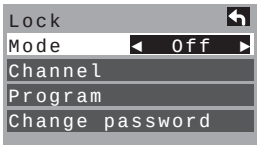
Lock Set

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.



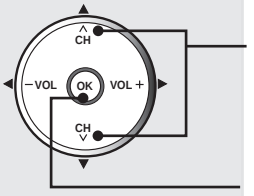
To prevent video games, VCR tapes and all channels and video modes from being viewed. The available modes are:

- 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)

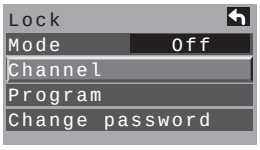
Select up to 7 (1-7) channels to be blocked out. These channels will be blocked out regardless of the program rating.

1

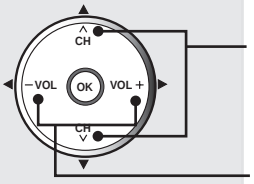


Press to select “Channel”.

Press to display the channel lock screen.

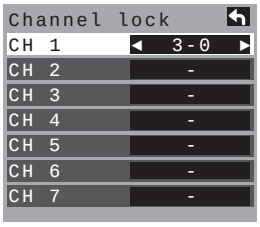


2



Press to select CH 1 - 7.

Press to select the desired Block channel.



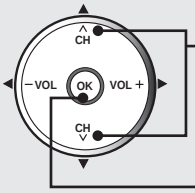
Block program

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.

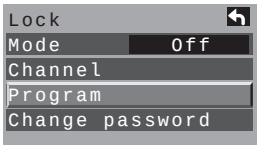
Rating level setting

1

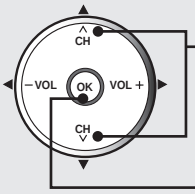


Press to select “Program”.

Press to enter program lock menu.

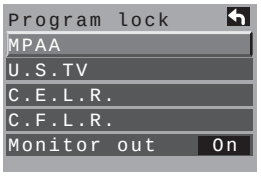


2

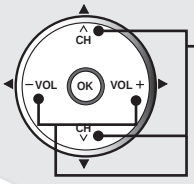


Press to select “MPAA,” “U.S.TV,” “C.E.L.R.” or “C.F.L.R.”.

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



3

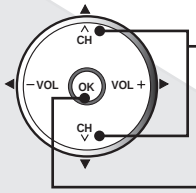


Press to highlight the desired rating level.

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

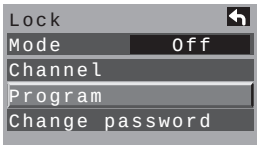
Monitor out setting

1

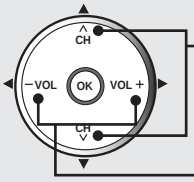


Press to select “Program”.

Press to enter program lock menu.

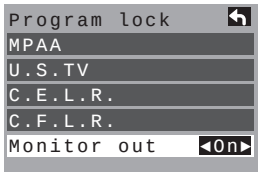


2



Press to select “Monitor out”.

Press to select “On” or “Off”.



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	• Viewable • Blocked	Not Rated. See “Customer Caution” on page 48.
Youth	TV-Y	• Viewable • Blocked	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	• FV (Fantasy Violence) • Viewable • Blocked	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	• Viewable • Blocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	• D,L,S,V (all selected) • Any combination of D, L, S, V	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	• D,L,S,V (all selected) • Any combination of D, L, S, V	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	• L,S,V (all selected) • Any combination of L, S, V	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 Section15.120(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.

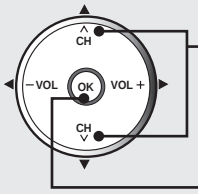
Notes:

- Entering the password will override the block condition. However, the ratings selection will be retained.
- Block cannot be canceled during Split Screen mode. Return to a single screen to cancel.

Message	Possible cause
Game locked.	The TV/VIDEO button was pressed when the 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.

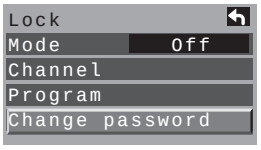
Change password

1

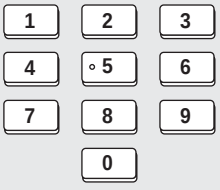


Press to select “Change password”.

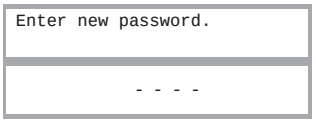
Press to enter the Input Password screen.

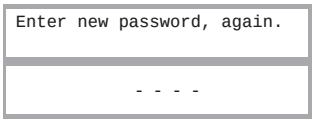


2 Change a 4-digit password to enter the Lock menu.



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 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.

Displayable Image Formats:
Baseline JPEG
(160 × 120 ~ 2 560 × 1 920 pixels)

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.

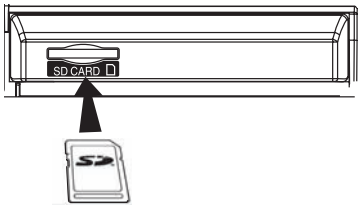
Insert/Remove the Card

⚠ CAUTION

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

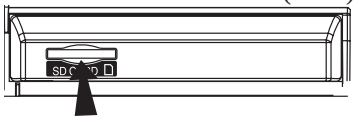
Insert the Card

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

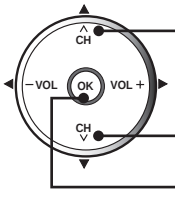
Gently press in on the Card and release slowly. Pull the Card from the slot.



Note:
- Remove the Card carefully to prevent it from popping out of the slot too fast.

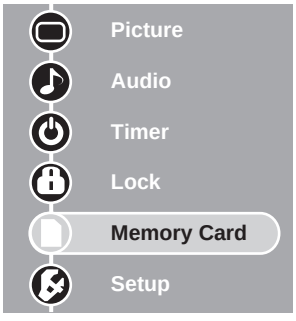
Photo Viewer (continued)

Press MENU to display the Main Menu screen.



Press to select “Memory Card” icon.

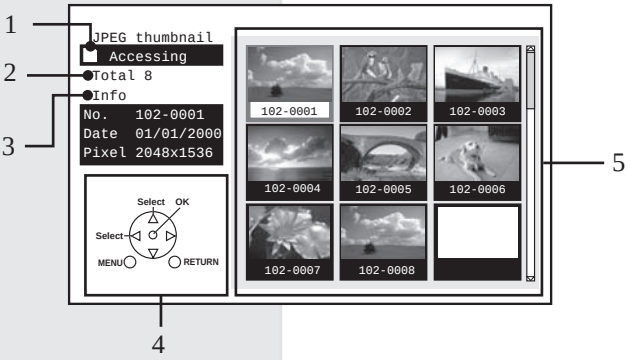
Press to display the Photo Viewer.



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

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	**ACCESS Indication**	“Accessing” is displayed while data is read. **Note:** • Proceed with all operations after “Accessing” has disappeared from the screen.
2	**Total**	Total number of JPEG images on the inserted card is displayed.
3	**Info**	Selected picture information is displayed. **No. :** Image number or file name is displayed. **Date :** Date of recording is displayed. **Pixel :** Display resolution is displayed. **Note:** • Depending on the JPEG type, Info contents may not be displayed correctly.
4	**Navigation Area**	Operational buttons are displayed as “GUI” (Graphical User Interface).
5	**Index Area**	JPEG images contained on the inserted card are displayed for viewing. **Notes:** • 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.

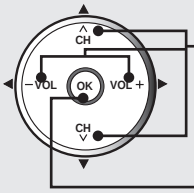
For assistance, please call : 1-888-VIEW PTV(843-9788) or, contact us via the web at: http://www.panasonic.com/contactinfo

Card Warning Messages

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

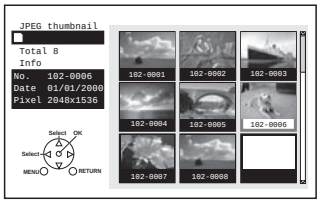
Message	Description
Is memory card in?	A card may not be inserted, or the card format may not be supported. (Use SD cards formatted in a digital camera.)
No file.	The card may not contain image data, or all images on the card may be incompatible.

Index Area Operation



Press to select icon.

Press to display full size file preview. (P. 52).



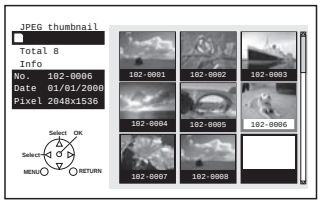
Notes:

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 redisplays the last viewed input.



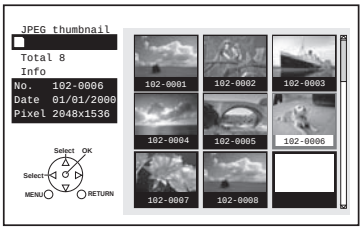
Press SD to exit Photo Viewer.

Advanced Operation

Photo Viewer (continued)

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. 39) is displayed.

Picture Adjust menu

Pressing RETURN to exit Picture menu.

Exit Single Play mode

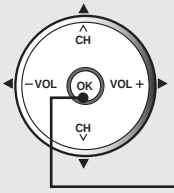
Pressing RETURN during Single Play mode allows you to exit the mode.

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

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

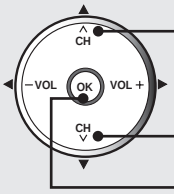
Slide Show Mode

1



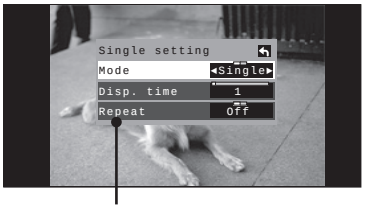
Press during Single Play Mode.

2



Press to select each item.

Press to set each item.



Single setting menu

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

3

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

4 Press OK during a slide show to stop it. The Submenu is displayed.

Navigation Display

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

Navigation Area

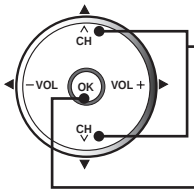
Exit Slide Show mode

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.

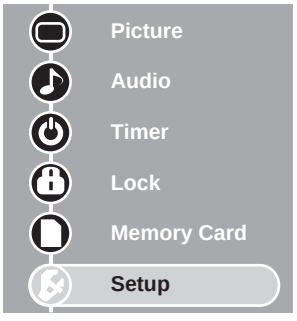
Setup Features

Press MENU to display the Main Menu screen.



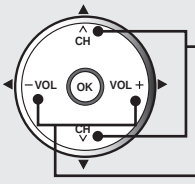
Press to select “Setup” icon.

Press to display the Setup menu.



CH scan

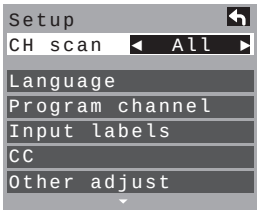
You may choose the way in which channels are selected with CH ∧∨.



Press to select “CH scan”.

Press to select “Fav.” or “All”.

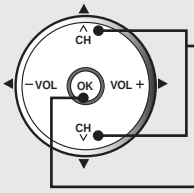
Fav.: CH ∧∨ only displays programs on the Favorite CH list.
All: CH ∧∨ selects all channels memorized with Auto Program.



Signal meter

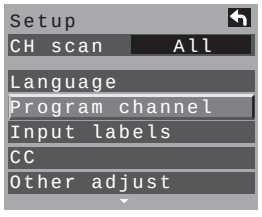
Allows you to confirm the signal strength of a desired channel.

1

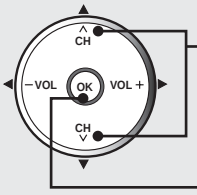


Press to select “Program channel”.

Press to enter Program channel menu.

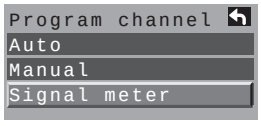


2

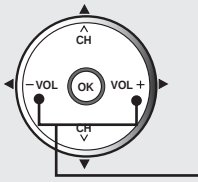


Press to select “Signal meter”.

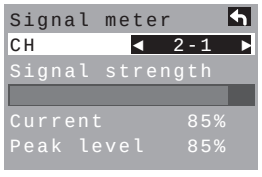
Press to display signal meter.
- If Lock (p. 45) has been set, you must enter your password to display the signal meter screen.



3



Press to select desired channel.



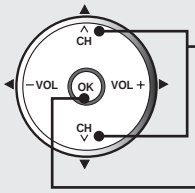
Note:
- The signal meter works only for digital signals input via the antenna.

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

Input labels

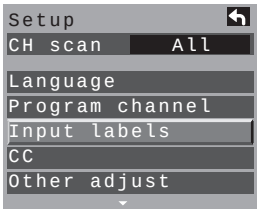
To label video input connections for on-screen display.

1

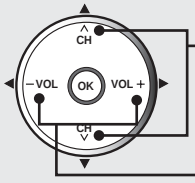


Press to select “Input labels”.

Press to enter the sub-menu field.



2

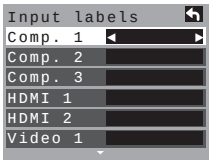


Press to select the each item.

Press to select the input label.
- To skip the input, select “SKIP”. The input will be skipped when you press TV/VIDEO.

(PT-44LCX65/PT-52LCX65/ PT-61LCX65)

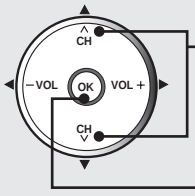
(PT-52LCX35/PT-61LCX35)



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

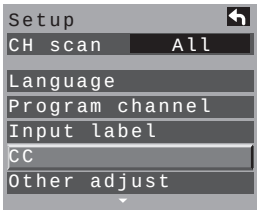
CC (Closed Caption)

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

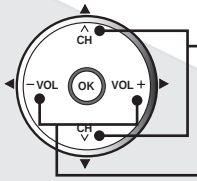


Press to select “CC”.

Press to enter Closed Caption menu.

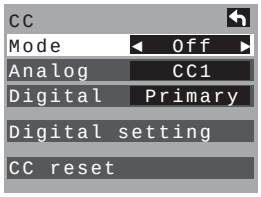


CC Mode



Press to select “Mode”.

Press to select the setting.

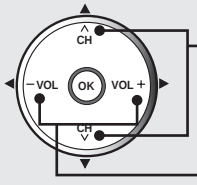


Off : Recommended mode when Closed Caption is not being used.
On : To display Closed Captions.

Notes:
- The closed caption is not displayed when you use HDMI connection.
- The closed caption is not displayed when you use Split Screen mode.
- 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.

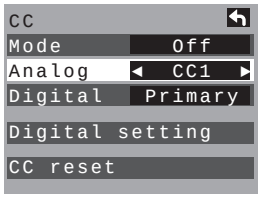
CC Mode for Analog

Choose the closed caption service of Analog broadcasting.



Press to select “Analog”.

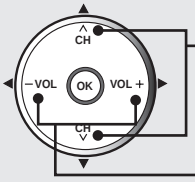
Press to select the setting.



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.

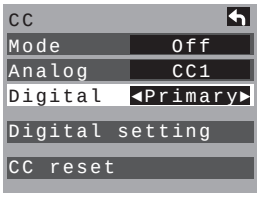
CC Mode for Digital

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



Press to select “Digital”.

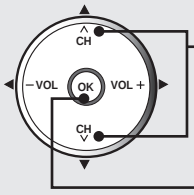
Press to select the setting.
- Primary, Second., Service 3, Service 4, Service 5, Service 6



Digital settings

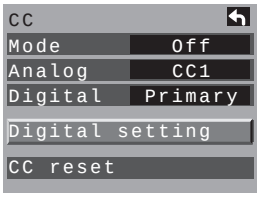
Selecting digital broadcast service and viewing formats.

1

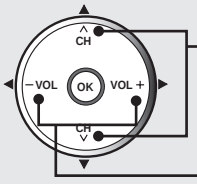


Press to select “Digital settings”.

Press to enter the Digital setting menu.

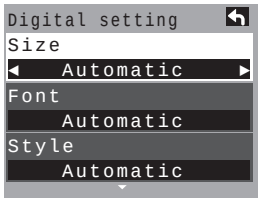


2

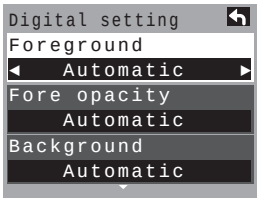


Press to select the each item.

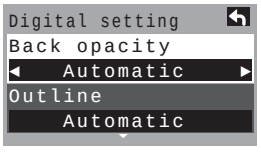
Press to select the setting.



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



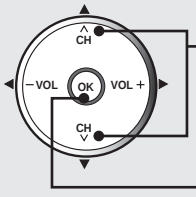
Foreground	The color of the font (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)
Fore opacity	The opacity of the font (Automatic, Transparent, Translucent, Solid, Flashing)
Background	The color of the text box (Automatic, Black, White, Red, Green, Blue, Yellow, Magenta, Cyan)



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)

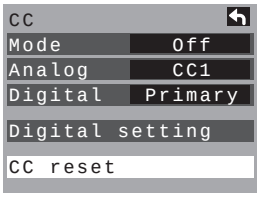
CC Reset

Reset the CC settings.



Press to select “CC reset”.

Press to reset Closed Caption settings.

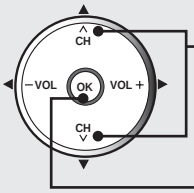


For assistance, please call : 1-888-VIEW PTV(843-9788) or, contact us via the web at: http://www.panasonic.com/contactinfo

Other adjust (Setup)

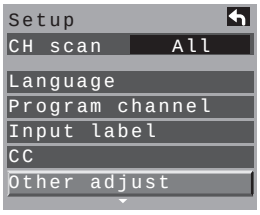
You can set your preference as to the way the picture is displayed.

1

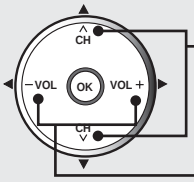


Press to select “Other Adjust”.

Press to display the Other Adjust menu.

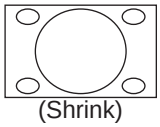
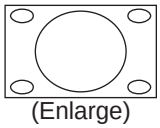
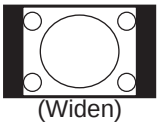


2



Press to select each item.

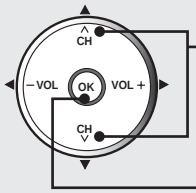
Press to adjust each item.

Item	Explanations	
Normal	Resets all picture adjustments to factory default settings.	
H-Width	If noise appears on the ends of the image in Shrink, switch to Enlarge. (Only JUST mode)	 (Shrink)  (Enlarge)
	If noise appears on the ends of the image in Widen, switch to Narrow. (Only 4:3 mode (Except PC input))	 (Widen) (Narrow)
V-Size	Adjust the vertical size. (Only ZOOM mode)	

About

Display the TV set Version and Software License.

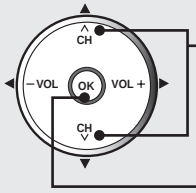
1



Press to select “About”.

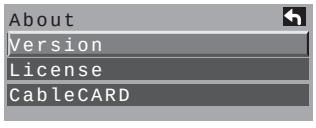
Press to display the About screen.

2



Press to select “Version” or “License”.

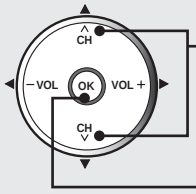
Press to display “Version” or “License”.



Reset

Setup is reset.

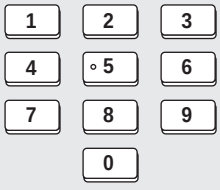
1



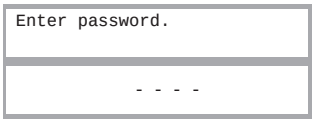
Press to select “Reset”.

Press to display the password screen.

2



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



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

Note:

- Performing Reset will clear all items set with Setup, such as channel settings. Use Reset with care.

Remote Control Quick Reference Guide (Operating peripheral equipment)

Programming the Remote

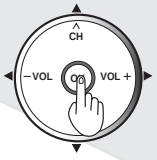
The Universal Remote Control can be programmed to operate many manufacturers' components, using the component function buttons for other components. Follow the procedures for programming your Remote Control with or without a code for the component.

Setting up the remote using the numerical keys.
(When code is known):

1

Confirm that the external component is plugged and operating. Turn the component off.

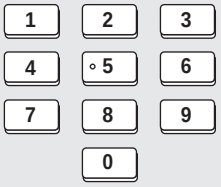
+



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

2

Press appropriate component button on the Remote Control.

3 

Enter the 3-digit component code using the Remote Control number keys (0 ~ 9 buttons). Press the Remote Control POWER to test the component. If the procedure was successful, the component will turn on.

Device	Operates	Default
TV	TV (Panasonic Only)	Panasonic Code
VCR	VCR (Preset)	Panasonic Code
DVD/CD	DVD and CD (Preset)	Panasonic Code
DTV	DTV (Panasonic Only)	Panasonic Code
RCVR	Audio Receiver (Preset)	Panasonic RCVR Code
DBS	DBS STB & CBL STB (Preset)	Panasonic DBS Code
CBL	Cable (Preset)	Panasonic CABLE Code
AUX	Personal Video Recorders, Cassette and VCR2	Panasonic Personal Video Recorder Code

Notes:
- Determine the manufacturer of the component and look in the table for the code.
- If the component does not operate with the Remote Control, repeat the procedure using another code. (Some brands have multiple codes). If an incorrect code is entered, or if the procedure takes longer than 30 seconds, the programming will fail.

Programming Without a Code

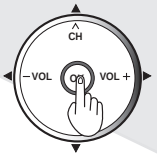
This procedure searches all codes and is called the "sequence method."

Setting to the remote using the step and set method
(When code is not known):

1

Confirm that the external component is plugged in and on. Turn the component off.

+

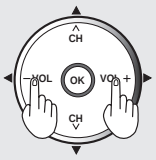


Press OK and POWER together, for at least 5 seconds.

2 VCR DVD RCVR DBS/CBL AUX

Press appropriate component button on the Remote Control.

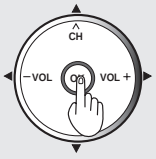
3



Press VOL ► to move forward to the next code. Press VOL ◄ to move backward.
Press the Remote Control POWER to test the component. If the procedure was successful, the component will turn on.

Note:
- Repeat the above steps until the component code is found. It may take many attempts before the correct code is found.

4



After the code is found, press OK to store the code.

Component Codes

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

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

CABLE
Cable Box

DBS
Digital Broadcast System

VCR
Video Cassette Recorder

RCVR
Receiver or Amplifier

CD
Compact Disc Player

DVD
Digital Versatile Player

Other Component

Other Component

Other Component

Infrared Codes Index

The Remote Control is capable of operating many brands of peripheral equipment. Refer to page 58 and 59 for programming procedures.

Notes:
- The Remote Control memory is limited and therefore some models may not operate. The Remote Control is not designed to control all features available in all models.
- After entering the proper infrared code, press the desired Mode Selection button on the Remote Control. Refer to pages 9 and 62 to 64 for details on operating peripheral equipment using the Remote Control.

VCR Infrared Codes Index

VCR

VCR

Codes For VCR

Brand	Code
Admiral	335
Aiwa	332
Akai	314, 315, 316, 329
Audio Dynamic	311, 339
Bell & Howell	305, 313
Broksonic	320, 326
Canon	323, 325
CCE	343
Citizen	306
Craig	305, 306, 329
Curtis Mathes	324, 345
Daewoo	301, 324, 343
DBX	310, 311, 339
Dimensia	345
Emerson	303, 319, 320, 325, 326, 343
Fisher	305, 307, 308, 309, 313
Funai	320, 326, 334
GE	324, 333, 345
Goldstar	306
Gradiente	334
Hitachi	300, 323, 345
Instant Replay	323, 324
Jensen	339
JVC	310, 311, 334, 339
Kenwood	306, 310, 311, 339
LXI	300, 305, 306, 307, 308, 309
Magnavox	323, 324, 331
Marantz	310, 311, 339
Marta	306
Memorex	309, 324
MGA	338, 340, 341, 347, 348
Minolta	300, 345
Mitsubishi	338, 340, 341, 347, 348
Multitech	304, 347
NEC	310, 311, 334, 339
Olympic	323, 324
Optimus	306, 321, 328, 335
Orion	320, 326
Panasonic	321, 322, 323, 324

Codes For VCR	
Brand	**Code**
Penney	300, 305, 310, 311, 324, 339, 345
Pentax	300, 311, 345
Philco	320, 323, 324, 326, 331, 343
Philips	323, 324, 331
Pioneer	323
Proscan	300, 301, 302, 323, 324, 331, 333, 345, 346
Quasar	321, 322, 323, 324
Radio Shack	305, 309, 324, 333, 336, 340
RCA	300, 301, 302, 323, 324, 331, 333, 345, 346
Realistic	305, 309, 324, 336, 340
Samsung	302, 304, 333
Sansui	320, 326, 339, 352
Sanyo	305, 309, 313
Scott	301, 302, 304, 309, 320, 326, 338, 340, 347, 348
Sears	300, 305, 306, 307, 308
Sharp	335, 336
Shintom	317
Signature 2000	335
Singer	337
Sony	328, 329, 330
Sylvania	323, 324, 331
Tashiro	306
Tatung	310, 311, 339
Teac	310, 311, 339
Technics	321, 322, 323, 324
Teknika	324
Toshiba	301, 346
Vector Research	311
Wards	306, 309, 335, 336, 344
Yamaha	305, 310, 311, 339
Zenith	306,344

CABLE CONVERTER BOX and DVD, CD PLAYERS Infrared Codes Index

CBL

DBS/CBL

Codes For Cable Box	
Brand	**Code**
ABC	124
Archer	125, 132
Cableview	105, 132
Citizen	105, 122
Curtis	112, 113
Diamond	124, 125, 132
Eagle	129
Eastern	134
GCbrand	105, 132
Gemini	122
General Instrument/ Jerrold	111, 119, 120, 121, 122, 124, 125, 126, 127
Hamlin	112, 118, 140, 141, 142, 145
Hitachi	103, 124
Macom	103, 104, 105

Codes For Cable Box	
Brand	**Code**
Magnavox	133
Memorex	130
Movietime	105, 132
Oak	102, 137, 139
Panasonic	109, 110, 114
Philips	106, 107, 128, 129, 130
Pioneer	101, 116
Pulsar	105, 132
Puser	132
RCA	115
Realistic	132
Regal	112, 118, 140, 141, 142, 145, 149
Regency	134
Rembrandt	105, 132, 137
Samsung	105
Scientific Atlanta	111, 112, 113
Slmark	101, 105
Sprucer	105, 110
Stargate	105, 110
Teleview	101, 105
Texscan	144
Tocom	135
Toshiba	104
Unika	125, 232
Universal	122, 132
Videoway	106
Viewstar	129, 130
Zenith	100, 117
Zenith/.Drake Satellite	100

DVD

DVD

Codes For DVD	
Brand	**Code**
Denon	100
Ferguson	101
JVC	109
Mitsubishi	105
Nordmende	101
Panasonic	100
Philips	103
Pioneer	102
RCA	101
Saba	101
Samsung	110
Sharp	108
Sony	104
Technics	100
Thomson	101
Toshiba	103
Yamaha	100
Zenith	107

Codes For CD Player	
Brand	**Code**
Admiral	226
Aiwa	233, 235
Carver	229
Denon	242
Emerson	239
Fisher	205
Harman/ Kardon	219, 220, 221, 223
Hitachi	207
Jensen	234
JVC	240, 241, 245
Kardon	223
Kenwood	200, 201, 211, 245
LXI/Sears	236
Magnavox	229, 232
Marantz	229
McIntosh	221
Nakamichi	210
Onkyo	214, 215
Optimus	208, 218, 220, 222
Panasonic	224, 225, 227
Philips	229, 230
Pioneer	208
Quasar	224, 225, 227
RCA	231, 237, 238, 247
Sansui	210, 246
Sanyo	205
Scott	210, 246
Sharp	242, 243
Sherwood	220
Sony	228
Soundesign	244
Teac	212, 216, 218
Technics	224, 225, 227
Victor	240, 241, 245
Yamaha	202, 203, 204

CASSETTE PLAYERS, PERSONAL VIDEO RECORDERS, RECEIVERS, AMPLIFIERS, and DBS Infrared Codes Index

AUX

AUX

Codes For Cassette Decks	
Brand	**Code**
Aiwa	223, 224, 225
Denon	231
Fisher	203
Jensen	214
JVC	229, 230
Kenwood	200, 207
Marantz	202
Nakamichi	205
Onkyo	208, 209, 213
Panasonic	216, 218
Philips	222

Codes For Cassette Decks	
Brand	**Code**
Pioneer	204
RCA	226, 227, 228
Sansui	205, 210
Sharp	231
Sony	219, 220
Teac	210, 211, 215
Technics	216, 218
Yamaha	201, 202

Codes For Personal Video Recorders	
Brand	**Code**
Panasonic Replay TV	100
Philips Tivo	102
Sony Tivo	101

RCVR

RCVR

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

Remote Control Quick Reference Guide (continued)

DBS

DBS/CBL

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

Operating Components with Remote Control

Note:
- Refer to page 9 for programming Remote Control procedure.

Operating a VCR

Program the Remote Control to use with VCR.

TO DO THIS...	PRESS
Turn on/off	POWER
Select TV Input mode for VCR	TV/VIDEO
Change Channels up/down	SPLIT SWAP DVD/VCR CH ∨ ∧
Record	REC
Play	PLAY ►
Stop	STOP ■
Fast Forward	FF ►►
Rewind the Tape	REW ◄◄
Pause	PAUSE ❚❚
Change to TV or VCR Mode	TV/VCR
On screen VCR Display	RECALL

Operating a CABLE BOX

Program the Remote Control to use with Cable Box.

TO DO THIS...	PRESS
Turn on/off	POWER
Select a Channel	1 2 3 4 5 6 7 8 9 0
Change Channels Up/Down	CH ∧ ∨ VOL − VOL + OK
Back to previous channel	R-TUNE

Operating a DBS

Program the Remote Control to use with DBS.

TO DO THIS...	PRESS
Turn on/off	POWER
Display DBS menu	OK
Menu Navigation	CH ∧ ∨ VOL − VOL + OK
Select a Channel	1 2 3 4 5 6 7 8 9 0
Program Information	RECALL
Back to previous channel	R-TUNE
Select next page up/down	SPLIT SWAP DVD/VCR CH ∨ ∧
Exit menus	EXIT

Operating a DVD

Program the Remote Control to use with DVD.

TO DO THIS...	PRESS
Turn on/off	POWER
Next/Previous Chapter	CH / – VOL / OK / VOL + / CH
DVD Display	RECALL
Skip Search Reverse	REW
Skip Search Fast Forward	FF
Record	REC
Play	PLAY
DVD Open/Close	OPEN/CLOSE
Stop	STOP
Still	PAUSE

Operating a Cassette Deck

To operate a cassette deck, the Remote Control must be in AUX mode and be programmed with the appropriate code for your equipment.

TO DO THIS...	PRESS
Turn on/off	POWER
Receiver Volume Up/Down	CH / – VOL / OK / VOL + / CH
Deck A/B	R-TUNE
Record	REC
Play	PLAY
Stop	STOP
Fast Forward	FF
Rewind the Tape	REW
Pause	PAUSE

Operating a Receiver

Program the Remote Control to operate audio receiver.

TO DO THIS...	PRESS
Turn on/off	POWER
Audio Mute	MUTE
RCVR. VOl Up Down	CH / – VOL / OK / VOL + / CH
Tuner Pre-set stations Up/Down	CH / – VOL / OK / VOL + / CH
To select AV Inputs or Components:	Press Remote Control number keys AV1: Press 1 AV2: Press 2 AV3: Press 3 AV4: Press 4 CD: Press 5 TUNER: Press 6 PHONO: Press 7 TAPE: Press 8 AUX: Press 9
Surround VOL Down	REW
Surround VOL UP	FF
Center CH VOL Up/Down	SPLIT SWAP DVD/VCR CH

Remote Control Quick Reference Guide (continued)

Operating a PVR (Personal Video Recorder)

Program the Remote Control to use with a PVR.

TO DO THIS...	PRESS
Turn on/off	POWER
Display PVR menu	MENU
PVR Navigation	CH, VOL, OK, VOL, CH
Select a Channel	1 2 3 4 5 6 7 8 9 0
Play	PLAY
Record	REC
Pause	PAUSE
Back to previous channel	R-TUNE
Exit menus	EXIT
Replay Zones	R-TUNE
Quick Skip	OPEN/CLOSE
Return to live	PROG
PVR CH Up/Down	SPLIT SWAP DVD/VCR CH

Notes:
- Not all functions listed may be controllable.
- Some TV, Cable Box and DSS Receiver brands require you to turn on the power manually.

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

Warning Indicators

This unit has indicators (lights on the front) to let you know the unit's internal condition. (P. 10.)
Depending on the condition, the Lamp, Power, or Temp indicator will flash to alert you. In this case, turn unit off and follow the measures below.

	Indicator	Symptom	Problem	Possible Solution
TEMP Indicator	Flashes red 1 or 3 times every 5 seconds.	Power shuts off.	Malfunction	Contact a service center.
	Flashes red 2 or 4 times every 5 seconds.	Power shuts off.	Internal overheat error.	Wait a while, then turn unit back on.
	Flashes red 5 times every 5 seconds.	Power shuts off.	Malfunction	Contact a service center.
LAMP Indicator	Lights solid red.	OSD appears every time power is turned on.	Maximum Lamp life hours exceeded.	Replace Lamp
	Flashes red 1 time ever 5 seconds.	Power shuts off.	Lamp will not light or light is abnormal.	Try turning Power On several times. If error persists, contact a service center.
	Flashes red 2 times every 5 seconds.	Power shuts off.	Lamp voltage is abnormal.	Contact a service center.
	Flashes red 3 times every 5 seconds.	Power shuts off.	Lamp temperature is too high.	Contact a service center.
	Flashes red 4 times every 5 seconds.	Power shuts off.	Other error.	Contact a service center.
POWER Indicator	Flashes orange 1 time every 5 seconds.	Power shuts off.	The internal cooling fan is not working.	Contact a service center.
	Flashes orange 2 times every 5 seconds.	Power shuts off.	The Lamp Cover is unsecured.	Securely attach Lamp Cover.

Note:
- If unit power is turned back on after performing the appropriate measures, make sure the unit has sufficiently cooled down. If the unit was used for a long period such that the lamp needs enough time to cool down, this may take a while.

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-LA1000

Lamp unit replacement period

The Lamp is a consumable item and it's life varies based on individual usage. Panasonic warranties 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 Contro 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 cool the lamp 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.

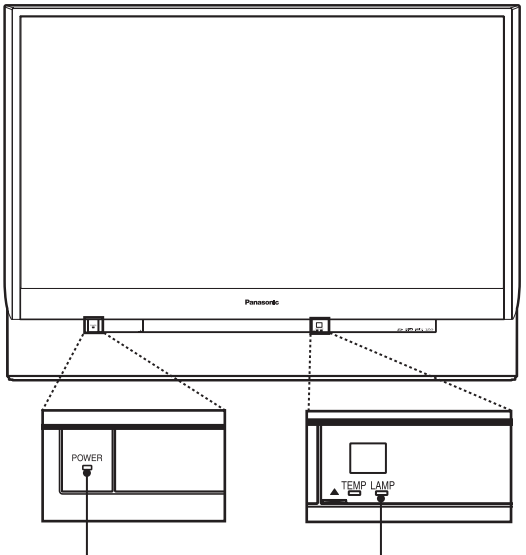
⚠ CAUTION

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.>

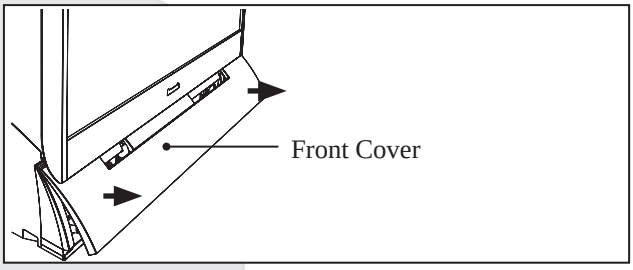
Lamp replacement procedure

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.

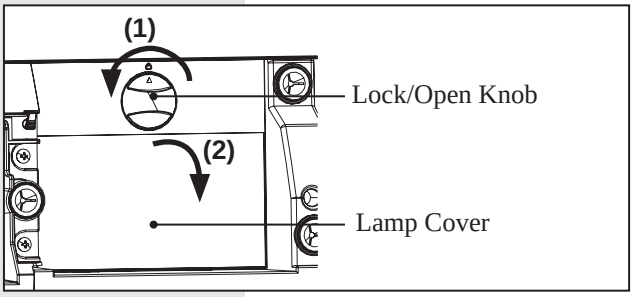


- **Please wait more than one hour for lamp replacement. If you need to replace the lamp more urgently, please see "e" at left.**

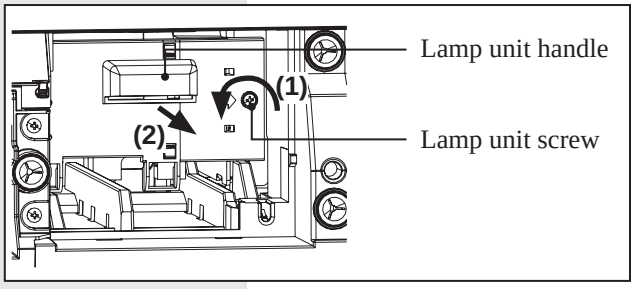
2 **Grasp both sides of the Front Cover with your fingertips and pull it from the Projection Display to remove it.**



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



4 **(1) Loosen the Lamp Unit Screw with a screwdriver.**
(2) Grasp the Lamp Unit Handle as shown in the diagram, and slowly remove the Lamp Unit from the Projection Display.

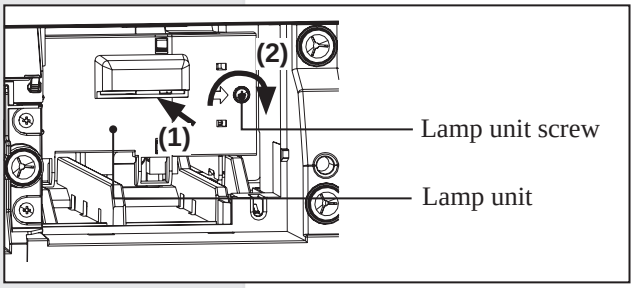


⚠ CAUTION

- **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.**

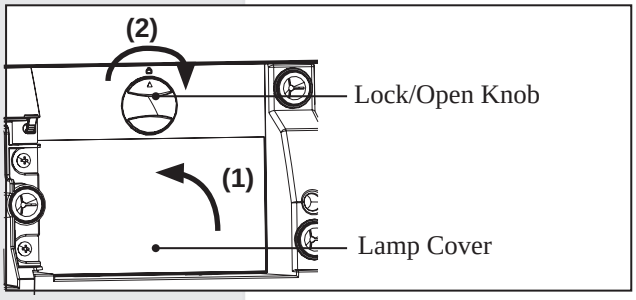
5 **(1) Insert the new Lamp Unit being careful of the insertion direction.**
- Press on the arrow mark to make sure insertion is done correctly.

(2) Tighten the Lamp Unit Screw with a screwdriver.

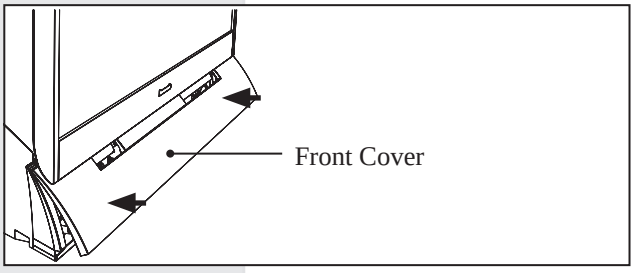


Notes:
- Properly dispose of old lamp. Please see page 66.
- Attach the lamp unit and lamp unit housing door securely. If the lamp unit and lamp unit housing door are not attached securely, the protective circuit will be activated and the lamp will not turn on.

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



7 **Replace the Front cover.**



<u>After lamp replacement</u>, you must reset the lamp time. Refer to the instructions enclosed with the lamp unit (Part No.: TY-LA1000).

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.		• Is the power cord plugged in?	24
No picture even if the power is turned ON. LAMP indicator blinks red.		• Please replace lamp with a new one. Please consult your nearest dealer, if not still repaired.	66-67
The power turns OFF.	The POWER indicator flashes orange twice every 5 seconds.	• The lamp cover is ajar. Firmly replace the cover.	65
	The TEMP indicator flashes 2 or 4 times every 5 seconds.	• Check whether or not the vents are clogged.	65
		• Is the set being used in a location that is hot?	65
	The TEMP indicator flashes 5 times every 5 seconds.	• Please consult your nearest dealer.	65
	Power turns off while another indicator is flashing.	• Please consult your nearest dealer.	65
Remote Control does not function.		• Are the batteries dead or inserted incorrectly?	7
		• Is the Remote Control sensor in direct light of fluorescent lamps or other strong sources of light?	10
		• Did you correctly set the Remote Control code?	58-64
Image shakes.		• Is the antenna or antenna cable old, broken or shorted?	-
Image is not clear. (blurring / vertical lines)		• Is the antenna cable connected properly?	12-14
		• 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.	-
		• 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.	-
Color patches or no color.		• When using a VCR and selecting channels on the TV, is the TV/VIDEO mode for the VCR set to TV?	-
Image appears doubled or tripled.		• Is the antenna facing the right direction?	-
		• Is the antenna receiving any signals reflected off of mountains or buildings.	-
Images disappear at the top and bottom of the screen.		• When using 16:9 image software, there is no picture at the top and bottom of the screen (cinema vision size software, etc.).	-
During ZOOM modes, the image is cut off at the top and bottom.		• Please adjust the V-Size. This is not a malfunction.	57
The Projection Display set makes a high whistling sound when the power is ON.		• This is the sound of the internal starting UP. This is not a malfunction.	-
Some parts of the screen are always lit while others do not light up. Some parts of the screen do not light up.		• This is a characteristic of the LCD panel and not a malfunction.	-
Fan is operating even though TV Power is OFF.		• This is because the cooling fan is operating. The fan will stop after about 1 minute.	24
An OSD instructing to replace the lamp is displayed. (The LAMP indicator is lit red.)		• Replace lamp with a new one.	66-67
Relighting the lamp when it is hot makes a sound.		• This is a characteristic of the lamp and not a malfunction.	-
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.		• 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.	-
An OSD advising “AIR FILTER CLEANING...” is displayed.		• Please consult your nearest dealer.	-
When viewing with HDMI connection, picture is displayed with unnatural colors (as if red and blue are reversed).		• Change “Color Corr.” from “Off” to “On”.	41
Pictures from a equipment are unusual when the equipment is connected via HDMI.		• Is the HDMI cable connected properly?	22-23
		• Turn Off the TV unit and device, then turn them On again.	-
		• Check an input signal from the equipment.	32
No sound is produced.		• Is “Sound Mute” active?	34
		• Is the volume set to the minimum?	33
		• Is “Speakers” set to “Off”?	43
		• Change “SAP” settings.	35
		• Check “HDMI In” (For models PT-44LCX65/PT/52LCX65/PT/61LCX65) / “HDMI 1 In” or “HDMI 2 In” (For models PT-52LCX35/PT-61LCX35) settings when the equipment is connected via HDMI.	43
		• If digital sound connection has problem, select analog sound connection.	22-23, 43

Specifications

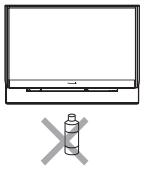
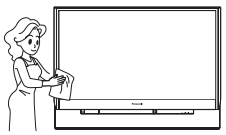
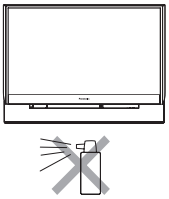
		PT-44LCX65	PT-52LCX65/PT-52LCX35	PT-61LCX65/PT-61LCX35
Power Source		AC 120 V, 60 Hz		
Power Consumption		Power ON: Approx. 180 W (When audio is at maximum) Power OFF: Approx. 0.3 W (When cooling fan is stopped with no CableCARD™)		
LCD panels		0.7″ Poly silicon TFT LCD panel × 3 921 600 (1 280 × 720) stripe pixels × 3 panels (16:9)		
Display		44-inch, 16 : 9 aspect ratio	52-inch, 16 : 9 aspect ratio	61-inch, 16 : 9 aspect ratio
Speaker		2 Speakers 30 W [15 W + 15 W] (10 % THD)		
HID Lamp		100 W HID (High Intensity Discharge) Lamp		
Channel Capability (ATSC/NTSC)		VHF/UHF 2-69 Cable 1-135		
Input Terminals	PC INPUT	RGB analog 0.7 Vp-p (75 Ω) (D-SUB15P) AUDIO 0.5 Vrms (RCA Pin Jack × 2)		
	AV INPUT 1-3	VIDEO 1.0 Vp-p (75 Ω) (RCA Pin Jack) S-VIDEO Y : 1 Vp-p (75 Ω), C : 0.286 Vp-p (75 Ω) (Mini DIN 4 pin) AUDIO L-R 0.5 Vrms (RCA Pin Jack × 2)		
	COMPONENT VIDEO INPUT 1-3	Y 1.0 Vp-p (with sync) (75 Ω) (Pin Jack) P_B / P_R ± 0.35 Vp-p (75 Ω) (Pin Jack × 2) AUDIO L-R 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)		
SD Card slot		SD Card (8 MB/ 16 MB/ 32 MB/ 64 MB/ 128 MB/ 256 MB/ 512 MB/ 1 GB (Maximum))		
Output signals (AV OUT)		VIDEO 1.0 Vp-p (75 Ω) (RCA Pin Jack) AUDIO L-R 0.5 Vrms (RCA Pin Jack × 2)		
Tuner		ATSC digital tuner with digital cable module		
Dimensions (W × H × D)		1 048 mm (W) × 769 mm (H) × 374 mm (D) 41-1/4″ (W) × 30-1/4″ (H) × 14-3/4″ (D)	1 225 mm (W) × 893 mm (H) × 431 mm (D) 48-1/4″ (W) × 35-3/16″ (H) × 17″ (D)	1 424 mm (W) × 1 029 mm (H) × 468 mm (D) 56 1/16″ (W) × 40 1/2″ (H) × 18 7/16″ (D)
Weight (Mass)		31 kg (68 lbs.) Net	35 kg (77 lbs.) Net	42 kg (93 lbs.) Net
Operating conditions		Temperature : 0 °C – 35 °C (32 °F - 95 °F) Humidity : 20 % - 80 % (non-condensing)		

*1 For models PT-44LCX65/PT-52LCX65/PT-61LCX65
*2 For models PT-52LCX35/PT-61LCX35

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.

	The unit contains many plastic parts. For this reason DO NOT use benzine, thinner or other chemicals to clean the unit.		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.
	DO NOT bring into contact with insecticide or other volatile substances. DO NOT allow the unit to come into contact for extended periods with rubber or vinyl products.		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.

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or, contact us via the web at:
http://www.panasonic.com/contactinfo

You may also contact us directly at:
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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

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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

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 Servicenter:
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

This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty also does not cover damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

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