## **Panasonic** \*\*

Operating Instructions 42"/50" Class 1080p Plasma HDTV (41.6/49.9 inches measured diagonally)

Model No. **TH-42PZ80Q TH-50PZ80Q** 

## **Quick Start Guide**

(See page 6-17)



For assistance (U.S.A./Puerto Rico), please call: 1-877-95-VIERA (958-4372) or visit us at www.panasonic.com/contactinfo











<hr/>tru2way>

English

Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.

### Turn your own living room into a movie theater!

## Experience an amazing level of multimedia excitement



antenna, after the end of full-power analog TV broadcasting in the United States (as required by law) on February 17, 2009. Some older television receivers, if they rely on a TV antenna, will need a TV Converter to receive over the air digital programming, but should continue to work as before for other purposes (e.g., for watching low-power TV stations still broadcasting in analog, watching pre-recorded movies, or playing video games). When a Converter is used with an older television receiver, a signal splitter might be necessary to continue to receive low-power analog broadcasts via an antenna. For more information, please see www.DTV.gov. For information on the TV Converter program, and on government coupons that may be used toward the purchase of one, see www.dtv2009.gov, or call the NTIA at 1-888-DTV-2009. Please check with your cable or satellite service provider if you have questions about your cable or satellite set-top box.

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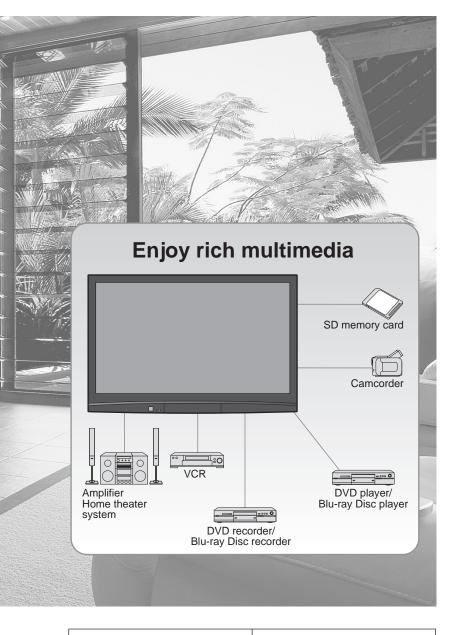
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#### **HDAVI** Control™

HDAVI Control™ is a trademark of Panasonic Corporation.



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

## HDMI<sup>™</sup>

COTV

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## **EZ** Sync™

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# **Safety Precautions**



#### **CAUTION**

RISK OF ELECTRIC SHOCK DO NOT OPEN



4

is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is

The lightning flash with arrowhead within a triangle



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

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.

WARNING:

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Do not place liquid containers (flower vase, cups, cosmetics, etc.) above the set

(including on shelves above, etc.).

#### **Important Safety Instructions**

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 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) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

#### **FCC STATEMENT**

This equipment has been tested and found to comply with the limits for an Other 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 Panasonic Service Center 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 peripheral devices. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user's authority to operate this device.

Responsible Party: Panasonic Corporation of North America

One Panasonic Way, Secaucus, NJ 07094

Contact Source: Panasonic Consumer Electronics Company

1-877-95-VIERA (958-4372)

email: consumerproducts@panasonic.com

#### **WARNING/CAUTION**



Small parts can present choking hazard if accidentally swallowed.

Keep small parts away from young children. discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

#### ■ Set up

Do not place the Plasma TV on sloped or unstable surfaces.

The Plasma TV may fall off or tip over.

Do not place any objects on top of the Plasma TV.

 If water spills onto the Plasma TV or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma TV, please consult an Authorized Service Center.

This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury. (All of the following accessories are manufactured by Panasonic Corporation.)

Wall-hanging bracket (Vertical) TY-WK42PV3U

TY-WK42PV3U TY-WK42PV4W

Wall-hanging bracket (Angled)

TY-WK42PR3U TY-WK42PR4W

Always be sure to ask a qualified technician to carry out set-up.

 Two or more people are required to install and remove the television. If two people are not present, the television may be dropped, and personal injury may result.

Transport only in upright position!

 Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

#### ■ AC Power Supply Cord

The Plasma TV is designed to operate on 120 V AC, 60 Hz. Securely insert the power cord plug as far as it will go.

 If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they should not be used.

The included power cord is for use with this unit only. Do not use any power cord other than that provided with this TV.

Doing so may cause fire or electric shocks.
 Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

Do not do anything that might damage the power cord. When disconnecting the power cord, hold the plug, not the cord.

Do not make any modifications to, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cord. Doing so may cause damage to the power cord which can cause fire or electric shock. If damage to the cord is suspected, have it repaired at an Authorized Service Center.

#### ■ If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor is detected from the Plasma TV, unplug the power cord immediately.

Continued use of the TV under these conditions might cause fire or permanent damage to the unit. Have the TV evaluated at an Authorized Service Center. Servicing of the TV by any unauthorized personnel is strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Plasma TV, if the Plasma TV is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.

 A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.



Do not cover the ventilation holes.

 Doing so may cause the Plasma TV to overheat, which can cause fire or damage to the Plasma TV.

Leave a space of 3 15/16" (10 cm) or more at the top, left and right, and 2 3/4" (7 cm) or more at the rear. When using the pedestal, keep the space between the bottom of the TV and the floor surface.

#### ■ When using the Plasma TV

Be sure to disconnect all cables before moving the Plasma TV.

 Moving the TV with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.

Electric shocks can result if this is not done.

Clean the power cord plug regularly to prevent it from becoming dusty.

Built-up dust on the power cord plug can increase humidity
which might damage the insulation and cause fire. Unplug the
cord from the wall outlet and clean it with a dry cloth.

This Plasma TV radiates infrared rays; therefore, it may affect other infrared communication equipment. Install your infrared sensor in a place away from direct or

Install your infrared sensor in a place away from direct or reflected light from your Plasma TV.

Do not climb up onto the television or use it as a step. (Young children should be made particularly aware of this caution.)

 If the unit falls over or becomes damaged through misuse, injury may result.

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

## **Notes**

#### ■ Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("Image retention"). This is not considered a malfunction and is not covered by the warranty.

#### Typical still images

- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photoVideo gameC
- Computer image





To prevent "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 53)

#### Set up

- Do not place the unit where it's exposed to sunlight or other bright light (including reflections).
- Use of some types of fluorescent lighting may reduce the remote control's transmission range.

# **Accessories/Optional Accessory**

#### **Accessories**

✓ Check you have all the items shown.

#### **Accessories**

- ☐ Remote Control Transmitter
  - N2QAYB000294



- ☐ Batteries for the Remote Control Transmitter (2)
  - AA Battery

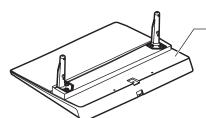




☐ AC cord



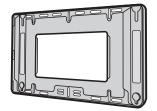
- Pedestal
  - TBLX0036 (TH-42PZ80Q)
  - TBLX0037 (TH-50PZ80Q)



How to assemble (p.7)

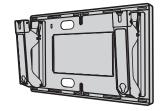
- Operating Instructions
- ☐ Quick Setup Guide
  - (For viewing HD programming)
- ☐ Product Registration Card (U.S.A.)
- ☐ Customer Care Plan Card (U.S.A.)

### **Optional Accessory**



#### Wall-hanging bracket (vertical)

- TY-WK42PV3U
- TY-WK42PV4W



#### (angle)

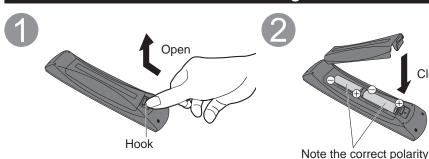
- TY-WK42PR3U
- TY-WK42PR4W

#### Note

- In order to maintain the TV's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the plasma TV stand or pedestal, and be absolutely sure to take steps to prevent the TV from tipping
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause its panel to crack.

#### Installing the remote's batteries

(+ or -).



#### Caution

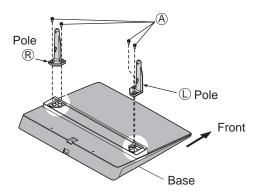
Close

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or break batteries.
- Make a note of the remote control codes before changing batteries in case the codes are reset. (p. 39)

#### Attaching the pedestal to TV

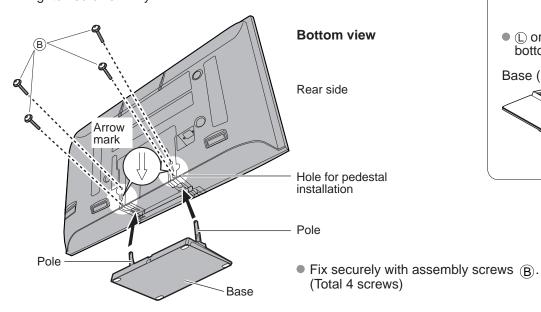
#### ■Assembling the pedestal

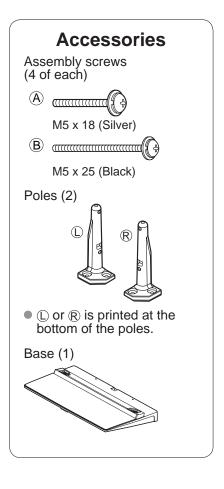
- Fix securely with assembly screws (A). (Total 4 screws)
- Tighten screws firmly.



#### ■Set-up

- Carry out work on a horizontal and level surface.
- Tighten screws firmly.





#### Warning

#### Do not disassemble or modify the pedestal.

Otherwise the TV may fall over and become damaged, and personal injury may result.

#### **Caution**

#### Do not use any other TV and displays.

• Otherwise the TV may fall over and become damaged, and personal injury may result.

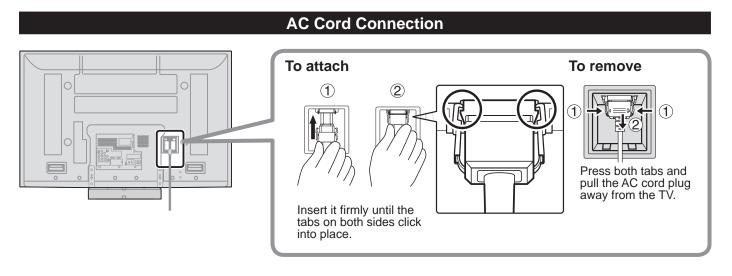
#### Do not use the pedestal if it becomes warped or physically damaged.

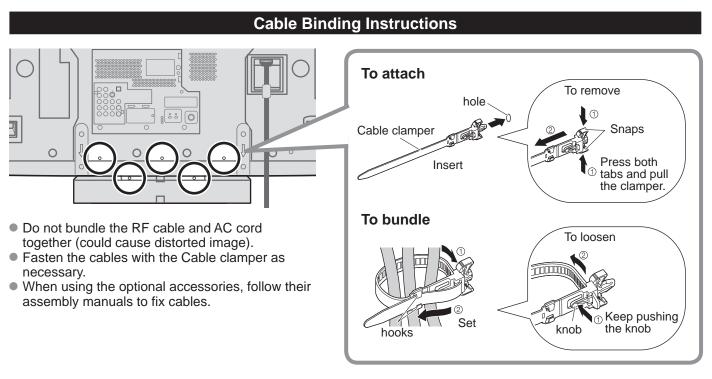
 If you use the pedestal when it is physically damaged, personal injury may result. Contact your nearest Panasonic Dealer immediately.

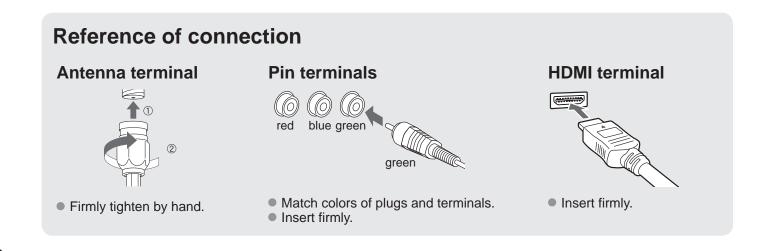
#### During set-up, make sure that all screws are securely tightened.

• If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

# Accessories/Optional Accessory (Continued)

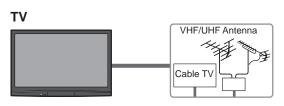






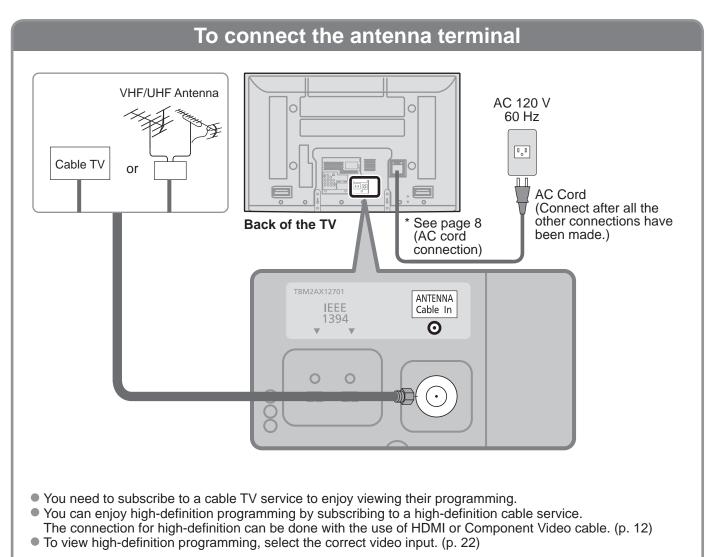
## **Basic Connection**

### **Example 1** Connecting Antenna (To watch TV)



#### VHF/UHF Antenna

- NTSC (National Television System Committee): Conventional broadcasting
- ATSC (Advanced Television Systems Committee):
   Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multi-channel surround-sound audio and interactive television.



#### Note

- Not all cables and external equipment shown in this book are supplied with the TV.
- For the details of the external equipment's connections, please refer to the operating manuals for the equipment.
- When disconnecting the power cord, be absolutely sure to disconnect the power cord plug from the wall outlet first.
- For additional assistance, visit us at: www.panasonic.com

# Basic Connection (Continued)

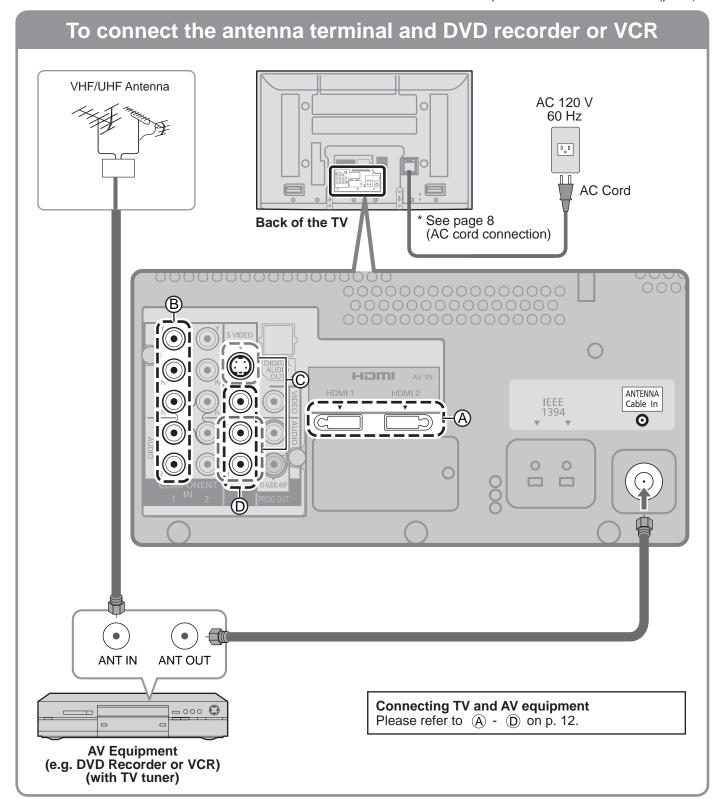
### Example 2 Connecting DVD recorder (VCR) (To record/playback)



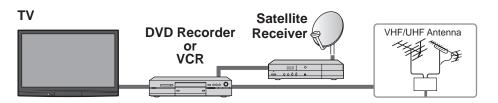
#### **DVD Recorder**

If this source has higher resolution through interlace or progressive signal, connection can be done with the use of Component Video or HDMI cable. (p. 12) **VCR** 

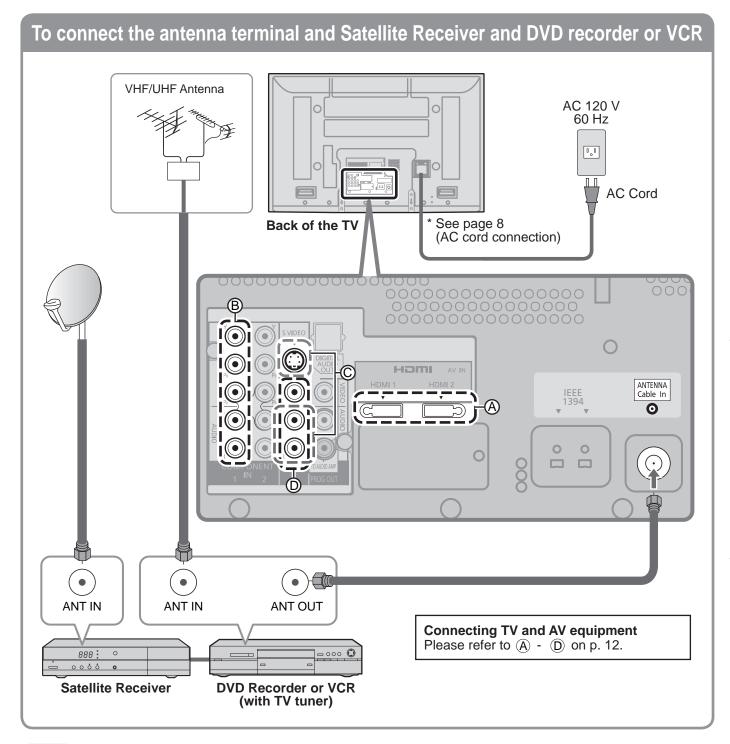
Connection can be done with the use of an RF cable and Composite Video/S Video cable. (p. 12)



### **Example 3** Connecting DVD recorder (VCR) and satellite receiver



You can enjoy high-definition programming by subscribing to high-definition satellite service. Connection can be done with the use of HDMI or Component Video cable. (p. 12)

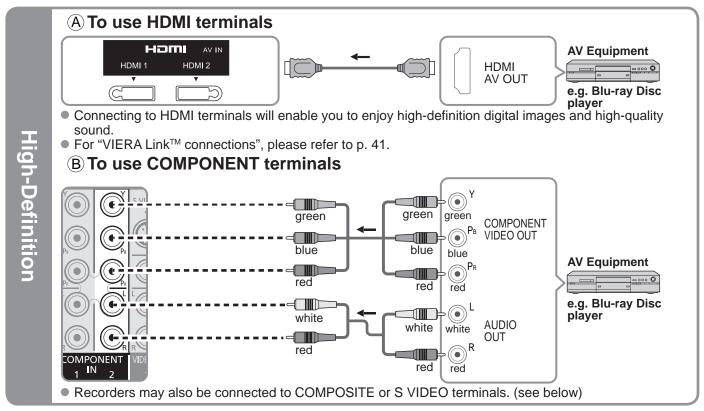


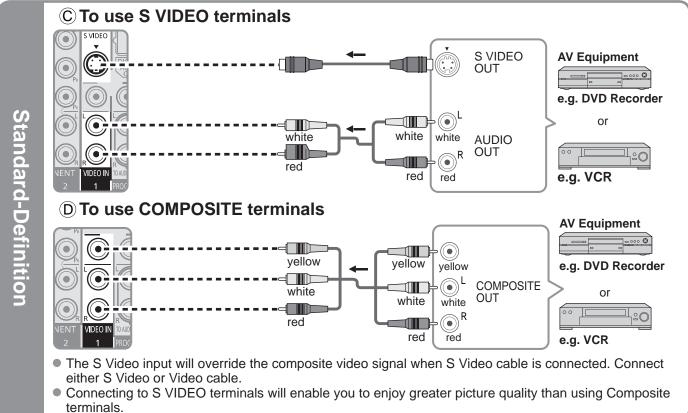
Note

For details of external equipment connections, please refer to the operating manuals for the equipment.

## Basic Connection (Continued)

#### **AV** cable connections

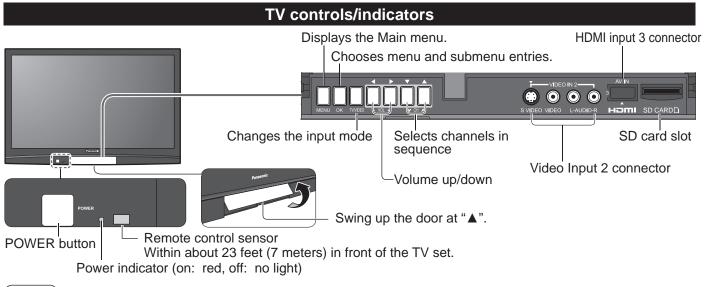




#### Note

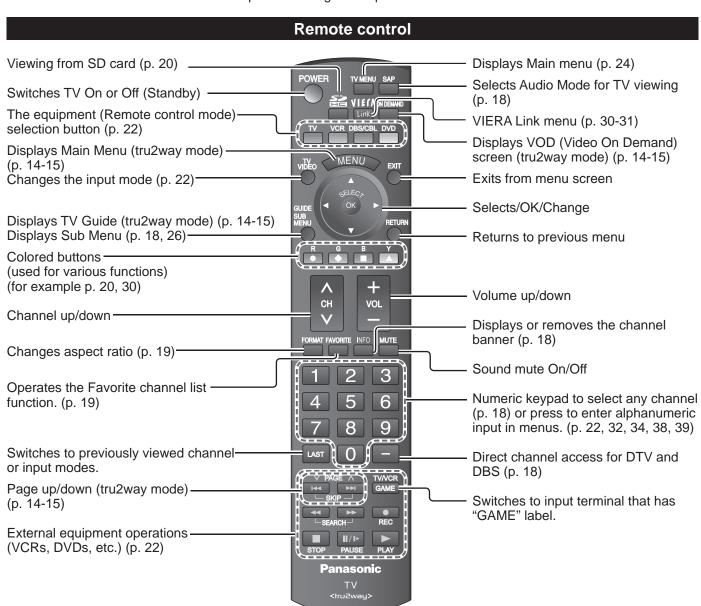
- Some programs contain a copyright protection signal to prevent VCR recording.
- When the copyright protection program is displayed, do not connect the other TV monitor through a VCR. Video signals fed through VCRs may be affected by copyright protection systems and the picture will be distorted on the other TV monitor.
- For the details of the external equipment's connections, please refer to the operating manuals of this equipment.

# **Identifying Controls**



Note

• The TV consumes a limited amount of power as long as the power cord is inserted into the wall outlet.



# Enjoy tru2way™ TV

You can enjoy a variety of advanced interactive, two-way services like VOD (Video on Demand), EPG (Electronic Program Guide), home banking, interactive games, as well as other e-Commerce applications on your TV with just the TV remote control.

#### Preparing/Switching the TV to tru2way mode



Follow steps 1 and 2 switch the TV to tru2way mode in order to use the service. Steps 12 are not necessary if the setup has been completed with your cable company.

### Insert a CableCARD™

Consult your cable company for the CableCARD connection.

## Switch the TV to tru2way mode by restarting

Follow the message on the screen.

• It is not possible to change the mode by just turning the TV off and on.

#### Note

- During initial setup and switch to tru2way mode, new application software must be downloaded from the cable company. The download time will vary based on the speed and size of the download.
- If you experience a front panel control or remote control function hang-up when using a CableCARD, unplug the TV and plug it back in and try the controls again. If this condition persists, please call Panasonic Customer Call Center for further instructions.
- Do not insert a PCMCIA card into the CableCARD slot.
   This may damage the TV.

### Returning to conventional TV mode from tru2way mode

You can also use the TV conventionally in non tru2way service areas.

- Please consult your cable service company or local Panasonic dealer for this process.
- Steps ① ② are not necessary if the setup has been completed with your cable company or local Panasonic dealer.

#### 1 Remove the CableCARD

Follow the directions on the screen.

- ② Reboot to return to conventional TV mode
- ③ Using the TV in conventional mode

You can enjoy various functions in conventional TV mode with these Operating Instructions.

#### Using tru2way service

- Available services will vary depending on the cable service company.
- For more details about the service, please ask your cable service company.

#### ■ Available TV's remote control buttons

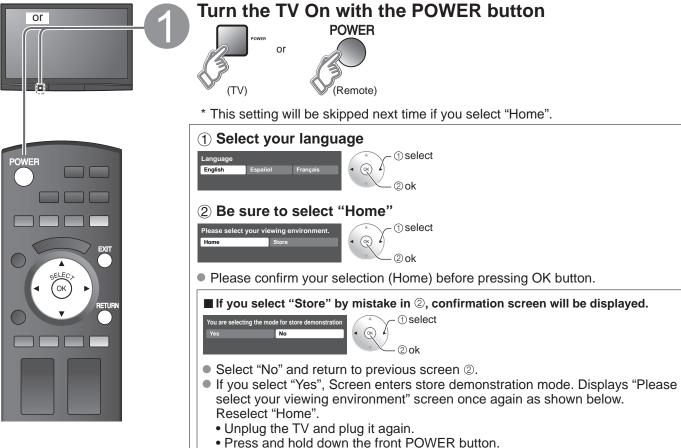
MENU	Display Main menu
ON DEMAND	Display VOD(Video On Demand) screen.
GUIDE SUB MENU	Display TV Guide
V PAGE ∧	Page up/down
R G B Y	Available when the function of the keys is displayed on screen

#### Note

- These Operating Instructions are described primarily for the conventional TV. For the tru2way mode, operations, menus and functions will vary depending on the cable service company.
- IEEE1394 terminals are only available when the tru2way application supports it.

# **First Time Setup**

"First time setup" is displayed only when the TV is turned on for the first time after the power cord is inserted into a wall outlet and when "Auto power on" (p. 26-27) is set to "No".



■ Press to exit from a menu screen



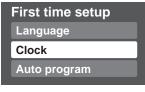
■ Press to return to the previous screen

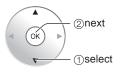




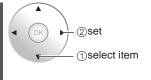
 To change setting (Language/Clock/ Auto program) later, go to Menu screen (p. 26)











Year: Select the year
Month: Select the month
Day: Select the day
Hour: Adjust the hour
Minute: Adjust the minute



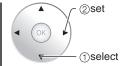
Go back to previous screen.

# Auto channel setup ① Select "Auto program"



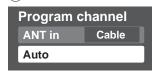
② Select "ANT in"

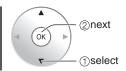




ANT in
Cable: Cable TV
Antenna: Antenna

③ Select "Auto"





4 Select scanning mode (ALL channels/Analog only/Digital only)





**Panasonic** 

■ Press to exit from a menu screen

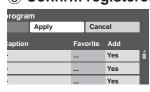
**EXIT** 

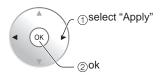
#### Start scanning the channels

Available channels (analog/digital) are automatically set.

All channels: Scans digital and analog channels Analog only: Scans Analog channels only Digital only: Scans Digital channels only

### ⑤ Confirm registered channels





- If OK is not pressed after selecting "Apply", the channels will not be saved.
   The channels will be saved when no operation is performed for 60 seconds and the "Manual program" menu will also exit automatically.
- If you perform scanning more than twice, previously saved channels are erased.

Note

About broadcasting systems

Analog (NTSC): Conventional broadcasting

**Digital (ATSC):** New programming that allows you to view more channels

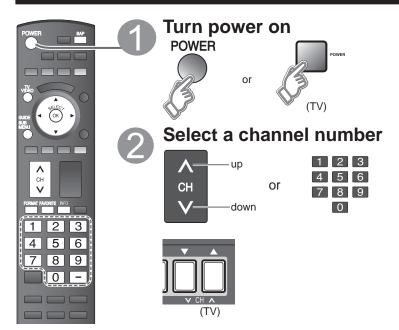
featuring high-quality video and sound



# Watching TV

Connect the TV to a cable, satellite box, or antenna cable (p. 9-12)

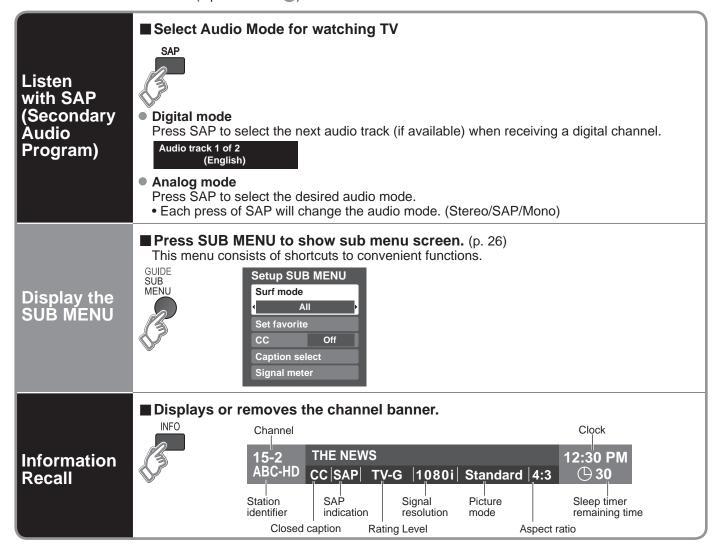




Note

- If the mode is not TV, press vibro and select TV. (p. 22)
- To directly input the digital channel number
- When tuning to a digital channel, press the button to enter the minor number in a compound channel number.
- example: CH15-1: 1 5 1

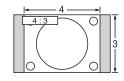
■ Other Useful Functions (Operate after ②)



#### Change aspect ratio

#### ■ Press FORMAT to cycle through the aspect modes. (p. 46)





- 480i, 480p: FULL/JUST/4:3/ZOOM
- 1080p, 1080i, 720p: FULL/H-FILL/JUST/4:3/ZOOM

#### Call up a favorite channel



#### **■ FAVORITE**

Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station by using the cursor or number buttons. (see below)

#### Note

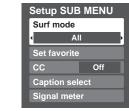
- Reselect "Cable" or "Antenna" in "ANT in" of "Program channel" to switch the signal reception between cable TV and antenna. (p. 17, 35)
- The channel number and volume level remain the same even after the TV is turned off.

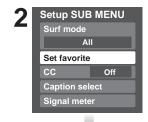
#### **Favorite Feature**

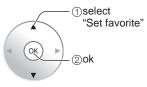
#### ■Set Favorite Feature

Display the SUB MENU.



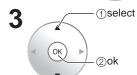








 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).



Press ▲ ▼to highlight a position on the list.

Then, press OK to save the displayed channel in that position.



 You can also use the NUMBER buttons (1-9 and 0) to select a list number (1-9 and 0). By doing so, the displayed channel will be saved on that list number without pressing OK.

#### To delete a favorite channel

A saved channel can be removed from the list by holding down OK while its position is highlighted.

#### **■**Use Favorite Feature



Press FAVORITE.

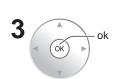
 Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit).





Press ▲ ▼ or a Numbered key (1-9 and 0) to highlight a channel on the list

 Selecting a channel number from the list with the number button will display the channel directly.



Press OK to display the highlighted channel.

# Viewing from SD Card

You can view photos taken with a digital camera or digital video camera and saved on an SD card. (Media other than SD Cards may not be reproduced properly.)

#### Photo viewer



• •



"SD card setting" will be displayed automatically each time a SD card is inserted for the first time.



Play SD card automatically: Set it to playback the data when SD card

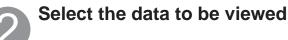
is inserted. When SD card is inserted, the data play automatically from next time. The data can be played manually.

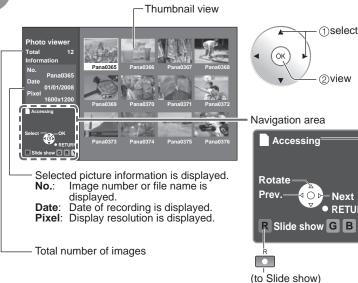


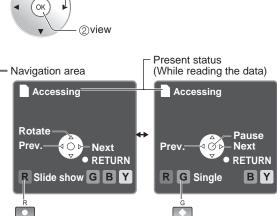
SD card automatically" setting.



You can skip this step when "Play SD card now" is selected or "On" is set in "Play







(to Single photo display)

Note )

View

Navigation area

 Depending on the JPEG format, "Information" contents may not be displayed correctly. Refer to p. 47 (Data format for SD card browsing) for details.

■ Press to exit from a menu screen **EXIT** 

**Panasonic** 

■ Press to return to the previous screen RETURN

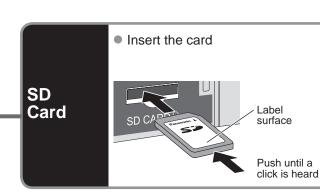


Displays one at a time

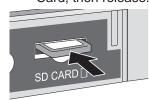


To display/hide Navigation area ⇒





Remove the card
 Press in lightly on SD Card, then release.



- Compliant card type (maximum capacity): SDHC Card (16 GB), SD Card (2 GB), miniSD Card (1 GB) (requiring miniSD Card adapter)
- For cautions and details on SD Cards (p. 47)

#### To change the view (slide show mode, adjusting images, etc.)

■To set up the slide show mode

In 2 or 3

1 Display "Photo menu"

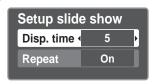


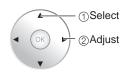
2 Select "Setup slide show"





3 Select the item and adjust





Disp. time	You can set how many seconds each image is displayed in Slide show mode. (1-10/15/20/30/45/60/120 sec)
Reneat	Turn the slide show Repeat function On or Off.

Note

- For large image sizes, the display time will be longer than the number of seconds set.
- To stop in mid-cycle ⇒ Press



In 2 or 3

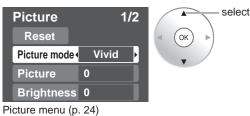
1 Display "Photo menu"



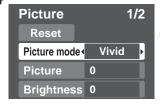
2 Select "Picture"



3 Select the item



4 Adjust or select





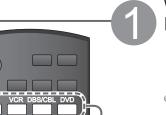
# Watching Videos and DVDs

If you have applicable equipment connected to the TV, you can easily watch videos and DVDs using the TV's remote control.

#### **Input Select**

You can select the external equipment to access.

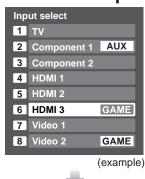
To operate other manufacturers' equipment, you need to register the code of the equipment. (p. 39)



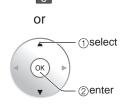
With the connected equipment turned On

#### Display the Input select menu

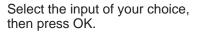
## Select the input mode







Press corresponding NUMBER button on the remote control to select the input of your choice.

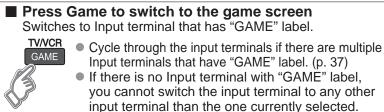


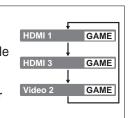
- During the selection, if no action is taken for several seconds, the "Input select" menu disappears.
- The terminal and label of the connected equipment are displayed.
   To label each of the inputs, please refer to p. 37.



#### Note

- The input label will be displayed on "Input select" screen if Input label is set on p. 37.
- For front input terminals (HDMI 3/Video 2), "GAME" input label is set as default. (Picture mode is set to "Game", refer to p. 48.)
- For more details for picture mode setting, refer to p.48. For Input label, refer to p. 37.





(example)

■To return to TV

2

5

8

0

II/)>

**Panasonic** 

3

6

9



## Select the remote control mode

Press the key to select

### Note

 For details, see the manual of the connected equipment.

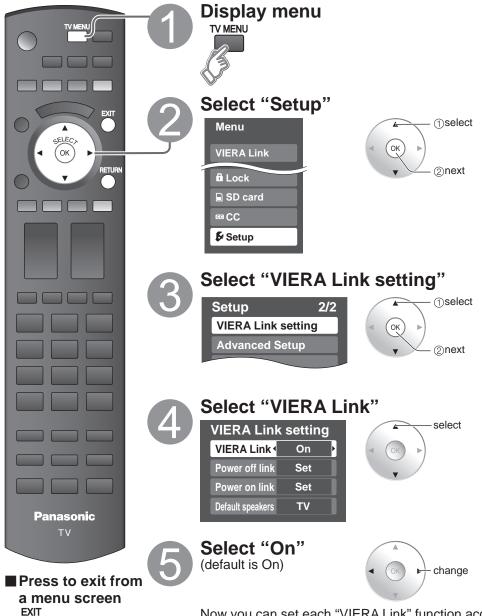
## Operate the connected equipment, pointing TV's remote control at the equipment.

	VCR MODE	DVD MODE		VCR MODE	DVD MODE
REC	VCR Record	Record	STOP	Stop	Stop
V PAGE A	_	Skip Reverse/ Forward	PAUSE	Pause	Pause
—SEARCH →	Rewind/Fast Forward	Reverse/Forward	PLAY	Play	Play
<i>'</i>					

(For other operations, see p. 42)

## VIERA Link™ Setting

If you connect equipment that has "HDAVI Control" function to this TV with HDMI cable, you can use more convenient functions. Please refer to p. 28-31. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.



Now you can set each "VIERA Link" function according to your preference (p. 28-29)

■ Press to return to the previous screen



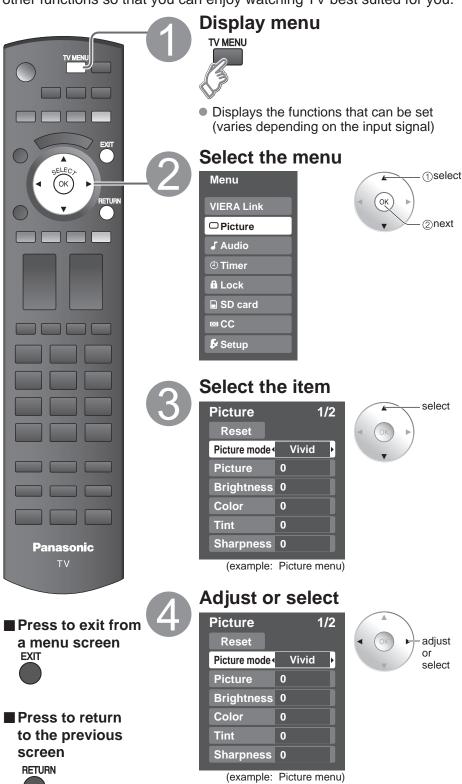


#### Note

- If no HDMI equipment is connected or standard HDMI equipment (non- "VIERA Link") is used, set it to "Off".
- For the details on the external equipment's connections, please refer to the operating manuals for the equipment.

## **How to Use Menu Functions**

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV best suited for you.



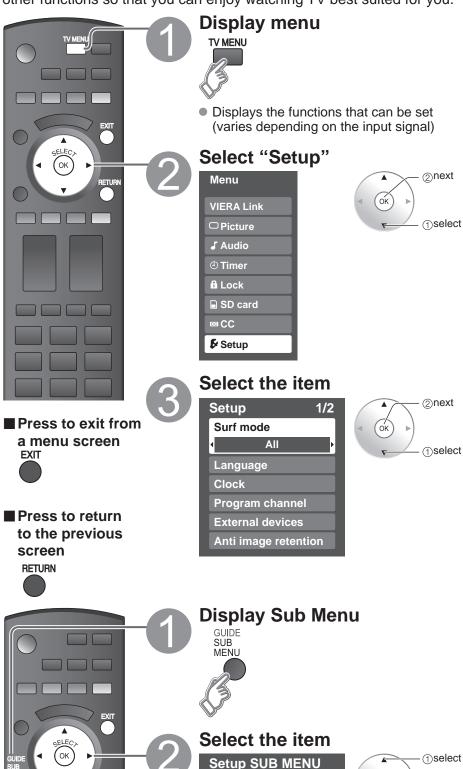
■ Menu list				
Menu Item				
Record now Stop recording VIERA Link control Speaker output	Stop recording VIERA Link control			
Reset				
Picture mode				
Picture, Brightness, Color, Tint, Sharpness				
Color temp.				
Color mgmt.				
x.v.Color				
Zoom adjust Video NR				
Video NR				
D Y/C filter				
Color matrix  MPEG NR  Black level				
MPEG NR				
Black level				
ਰ HD size				
Reset				
Bass				
Treble				
Balance				
Al sound				
Surround A				
Bass boost				
Audio leveler				
Advanced audio leveler Speaker output				
HDMI 1 in HDMI 2 in HDMI 3 in				
Timer Sleep, Timer 1-5				
Lock				
	SD card			
SD card				

Adjustments/Configurations (alternat	tives)			
[Record now/Stop recording] Records programs on the recorder immediately with the TV's remote control (p. 30-3)	31).			
[VIERA Link control] Selects equipment to access and operate. (Recorder/Home theater/Player/Camco [Speaker output]	<b>order)</b> (p.30	-31)		
Selects an audio output. (Home theater/TV) (p. 30-31)  VIERA Link menu is accessible directly by pressing the VIERA Link button on the remote	e control.	Link (p. 30)		
Resets all picture adjustments to factory default settings except for "Advanced pictu			Reset	
Basic picture mode (Vivid/Standard/Cinema/Game/Custom) (p. 48)			Picture mode	Vivid
Adjusts color, brightness, etc. for each picture mode to suit your taste	Picture	+20	Tint	0
<ul><li>Display range</li><li>Picture/Brightness/Color/Sharpness: 0 - 100</li></ul>	Brightness	0	Sharpness	0
 Tint: -50 - +50	Color	0	<u> </u>	
Selects a choice of Cool(blue), Normal, or Warm(red) color. (Cool/Normal/Warm)			Color temp.	Cool
On: Enhances green and blue color reproduction, especially outdoor scenes. (On/C			Color mgmt.	On
 Auto: Provide the appropriate picture when images corresponding to "x.v.Color" are input of this TV. (Off/Auto)	input via th	e HDMI	x.v.Color	Auto
Adjusts vertical alignment and size when aspect setting is "ZOOM" (p. 46)			Zoom adjust	
Reduces noise, commonly called snow. Leave it off when receiving a strong signal.	(Off/On)		Video NR	Off
Minimizes noise and cross-color in the picture. (On/Off)			3D Y/C filter	On
<ul> <li>Selects image resolution of component-connected devices (HD/SD)</li> <li>SD: Standard Definition HD: High Definition</li> <li>Only 480p signal accepted; regular TV (NTSC) is not available.</li> </ul>			Color matrix	SD
 Reduces noise of specific digital signals of DVD, etc. (On/Off)			MPEG NR	Off
 Selects Dark or Light. Valid only for external input signals. (Dark/Light)			Black level	Light
Selects between 95 % (Size 1) or 100 % (Size 2) for the scanning area with High-definition s Select "Size 1" if noise is generated on the edges of the screen.  Size 1: Selected item for "HD size". Scanning 95%  Size 2: Selected item for "HD size". Scanning 100%	signal. <b>(Size</b>	1/ Size 2)	HD size	Size1
Resets Bass, Treble and Balance adjustments to factory default settings.			Reset	
Increases or decreases the bass response.			Bass	0
Increases or decreases the treble response.			Treble	0
Emphasizes the left / right speaker volume.			Balance	0
 Equalizes overall volume levels across all channels and external inputs. (On/Off)			Al sound	On
Enhances audio response when listening to stereo. (On/Off)			Surround	Off
Enhances bass sound and provides powerful sound. (On/Off)  This setting will not function if "off" is set in "Speaker output".			Bass boost	Off
Minimizes volume disparity after switching to external inputs			Audio levele	r 0
Switch to "Off" when using external speakers (On/Off)  "Al sound", "Surround", and "Audio leveler" do not work if "Off" is selected			Speaker outpu	t On
The default setting is "Digital" for HDMI connection. (Digital input signal)			HDMI1 in	Digital
Select audio input terminal when DVI cable is connected. (Analog audio input signal (Digital/Component 1/Component 2/Video 1/Video 2)	l)		HDMI2 in	Digital
(bigital/component i/component z/video i/video z)			HDMI3 in	Digital
The TV can automatically turn On/Off at the designated date and time (p. 38)			Sleep	60
Locks the channels and programs (p. 32)				
Displays SD card data (p. 20-21)			SD card	
Displays subtitles (Closed Caption) (p. 36)			СС	

• In AV mode, the Audio menu and Setup menu give fewer options.

## **How to Use Menu Functions**

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV best suited for you.



Surf mode

Set favorite

**Caption select** Signal meter

ΑII

(oĸ)

②set

next

■ Menu list				
Menu	Item			
	Sur	f mode		
	Lar	iguage		
	Clo	ck		
	Pro	gram channel		
	Externa	Input labels		
	Il devices	Monitor out		
	Anti im	Pixel orbiter		
	age	Time		
	retention	Side bar		
		Scrolling bar		
S	External devices Anti image retention VIERA Link setting Advanced setup	VIERA Link		
etu		Power off link		
Ъ		Power on link		
		Default speakers		
		Auto power on		
		No signal shut-off		
		No action shut-off		
		Play SD card automatically		
	Abo	out		
	Res	set		

#### ■ Sub menu list

Menu	Item	
Setup SUB MENU	Surf mode	
	Set favorite	
≤ tu	СС	
	Caption select	
<b>C</b>	Signal meter	

## (Continued)

Adjustments/Configurations (alternatives)				
Sets the mode to select the channel with Channel up/down button (All/Favorite/Digital Only/Analog only)  Favorite: Only channels registered as FAVORITE (p. 19)	Surf mode All			
Selects the screen menu language (p. 16)	Language			
Adjusts the clock (p. 16)	Clock			
Sets channels (p. 34)	Program channel			
Selects the terminal and label of the external equipment (p. 37)				
[Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3/Video 1/Video 2] To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 37) (On/Off)				
Prevents "Image retention" with Wobbling. (Automatic/Force)  Automatic: Shifts the display image automatically. Force: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time" menu.	Pixel orbiter Automatic			
Sets the time for "Pixel orbiter-Force" setting. (1/2/3/4)	Time 4			
Change the brightness of the side bar (Off/Dark/Mid/Bright) (4:3 mode only)  The recommended setting is "Bright" to prevent panel "Image retention". (p. 49)	Side bar Bright			
Press "OK" to start "Scrolling" on the screen (p. 49)	Scrolling bar			
Controls equipment connected to HDMI terminals (p. 28) (On/Off)  "Power off link", "Power on link", and "Default speakers" cannot be selected if "Off" is set.	VIERA Link On			
Sets "Power off link" of HDMI connection equipment (p. 28) (Set/No)	Power off link Set			
Sets "Power on link" of HDMI connection equipment (p. 28) (Set/No)	Power on link Set			
Selects the default speakers (p. 28) (TV/Theater)	Default speakers TV			
Turns TV On automatically when a connected device is turned On (No/Set)  ■ The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 38)	Auto power on No			
To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION is performed for more than 10 minutes. (Set/No)  Note  Not in use when setting "Auto power on", "On/Off Timer", "Lock", "SD Mode", or Digital channel.  "No signal shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No signal shut-off".  The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No signal shut-off Set			
To conserve energy, the TV automatically turns off when no operation of remote or front panel key continues for more than 3 hours. (No/Set)  Note  Not in use when setting "Auto power on" or "On/Off Timer".  "No action shut-off was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after turning the power off by "No action shut off".  The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.	No action shut-off No			
Set "On" to play back SD cards automatically. (On/Off)	Play SD card automatically On			
Displays TV version, software license and cableCARD™.	About			
Performing Reset will clear all items set with Setup, such as channel settings. (p. 34)	Reset			

Adjustments/Configurations (alternatives)
the mode to select the channel with Channel up/down button (All/Favorite/Digital Only/Analog only)
favorite channels. (p. 19)
olays Closed Caption. (p. 36) (Off/On)
nges the station identifier. (p. 35)
cks the signal strength if interference or freezing occurs on a digital image. (p. 35)

## VIERA Link<sup>TM</sup> "HDAVI Control<sup>TM</sup>"

\* Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on one remote.

VIERA Link™ is a new name for EZ Sync™.

Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control". This TV supports "HDAVI Control 3" function.

Connections to the equipment (DVD recorder DIGA, HD Camcorder, Player theatre, RAM theater, Amplifier, etc.) with HDMI cables allow you to interface them automatically. The equipment with "HDAVI Control" function enables the following operations:

- Automatic Input Switching (p. 29)
- Power on link (p. 29)
- Power off link (p. 29)
- Default speakers (p. 29)
- One-touch theater playback (p. 29)
- Speaker control (p. 31)

The equipment with "HDAVI Control 2" (or more) function enables the following operations:

- VIERA Link control only with the TV's remote control (for "HDAVI Control 2" or "HDAVI Control 3") (P. 31)
- Providing the setting information (for "HDAVI Control 3") (p. 29)
- Automatic lip-sync function (for "HDAVI Control 3") (p. 29)
- Direct TV Recording (for "HDAVI Control 3") (p. 31)

VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

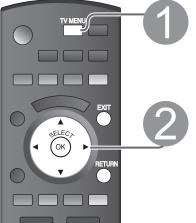
Please refer to the individual manuals for other manufacturers' equipment supporting the VIERA Link function.

■For the first time / when adding new equipment, reconnecting equipment or changing the setup after the connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 22), and make sure that an image is displayed correctly.

#### **■**HDMI cable

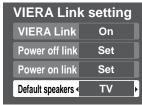
This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized. It is recommended that you use Panasonic's HDMI cable. Recommended part number: RP-CDHG10 (3.3 ft/1.0 m), RP-CDHG15 (4.9 ft/1.5 m), RP-CDHG20 (6.6 ft/2.0 m), RP-CDHG30 (9.8 ft/3.0 m), RP-CDHG50 (16.4 ft/5.0 m)

\* For more details on the external equipment's connections, please refer to the operating manuals for the equipment.



Follow direction 1 - 5 in "VIERA Link setting" (p. 23)







■ Press to exit from a menu screen



■ Press to return to the previous screen

RETURN

3

Set

VIERA Link setting
VIERA Link On
Power off link Set





Automatic Input Switching

Power on link

Power off link

Default speakers

One-touch theater playback

Providing the setting information (for "HDAVI Control 3")

Automatic lip-sync function (for "HDAVI Control 3") At the start of the DIGA, Player theater, or RAM theater playback, the TV's input automatically switches to the input based on the playback equipment.

For the RAM theater, the speakers automatically switch to the theater system.
 If using the DIGA operation, the TV's input automatically switches to the DIGA and DIGA menu is displayed.

When "Set" is selected (p. 27), TV is turned on automatically and switches to the appropriate HDMI input whenever VIERA Link compatible equipment is initially turned on and Play mode is selected.

When "Set" is selected (p. 27) and the TV is turned off, all connected VIERA Link compatible equipment is also automatically turned off.

• DIGA (Panasonic DVD Recorder) will not turn off if it is still in rec mode.

Caution: The TV remains on even if the VIERA Link compatible equipment is turned off.

"TV" is the default setting. To set the Home Theater system as default speakers, change the default speakers setting from "TV" to "Theater". Sound will be output from the Home Theater whenever the TV is powered on.

If the "ONE TOUCH PLAY" key is pressed on the remote control for Panasonic Home Theater system, the following sequence of operations is performed automatically.

- 1 Home Theater power switches On, and playback begins.
- 2 TV power switches On, and the playback screen is displayed.
- 3 Audio is muted on the TV and switches to the theater system.

The following information about the TV settings can be transmitted to each equipment (Recorder/Home theater/ Player) that has "HDAVI Control 3" function connected to a TV with HDMI piece of cable.

Transm	Recorder	Home theater	Player	
① On Screen Displ (English/Españo	0	0	0	
② Panel Aspect Ratio (16:9 fixed)		0	0	0
	mode	0		
③ Closed caption information	CC type	0		
in omation	Digital setting	0		
	Input signal	0		
Channel information	Channel list	0		
sauom	Caption information	0		

#### Note

- There is a possibility that all the GUI language information might be set from equipment that has HDMI CEC function connected to TV with HDMI cable. Depending on operating conditions or the specification for each piece of equipment the setting may or may not be applied.
- For details on the external equipment's operation, please refer to the operating manuals for the equipment.

#### [For Recorder]

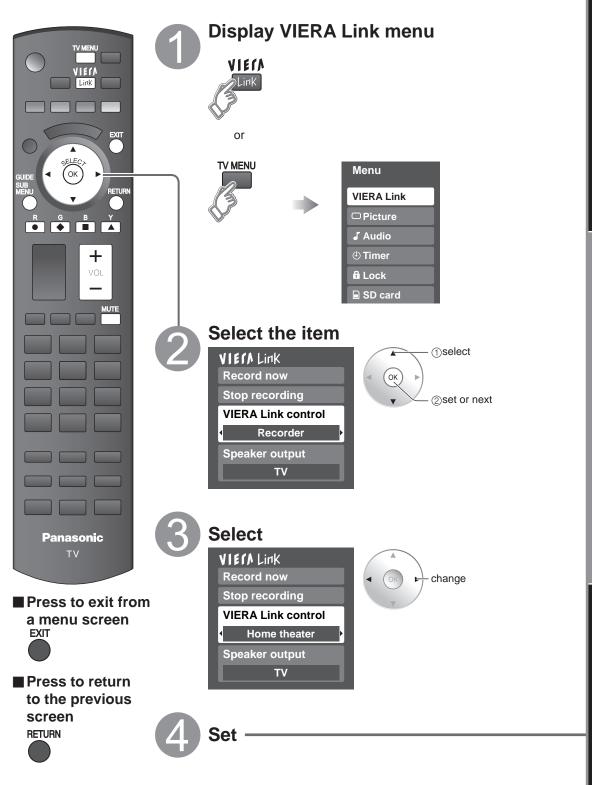
• You cannot operate other functions while transmitting TV's information above except Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting ④ Channel information).

Minimizes lip-sync delays between the picture and audio when you connect to a Panasonic theater system or Amplifier.

## VIERA Link<sup>TM</sup> "HDAVI Control<sup>TM</sup>"

You can enjoy more convenient operation with the "HDAVI Control" function in the "VIERA Link" menu.

For more details on the "HDAVI Control" function, refer to p. 28



Speaker control

VIERA Link Control only with the TV's remote control (for "HDAVI Control 2" or "HDAVI Control 3")

Direct TV Recording (for "HDAVI control 3")

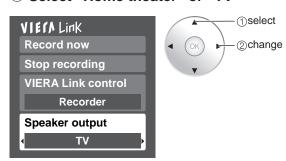
## (Continued)

You can select Home theater or TV speakers for audio output.

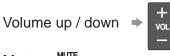
Control theater speakers with the TV's remote control.

This function is available only when Panasonic Amplifier or Player theater is connected.

- 1 Select "Speaker output"
- 2 Select "Home theater" or "TV"



■Home theater: Adjustment for equipment

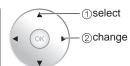


- Mute → MUTE
- The sound of the TV is muted.
- When the equipment is turned off, the TV speakers take over.
- Selecting "Home theater" turns the equipment on automatically if it is in standby mode.
- **TV:** The TV speakers are on.

In the VIERA Link menu, you can select HDMI connected equipment and access it quickly. Continue using your TV's remote control to operate the equipment, pointing it at the TV.

- ① Select "VIERA Link Control"
- ② Select the equipment you want to access. (Recorder/Home theater/Player/Camcorder)





You can select available items only.

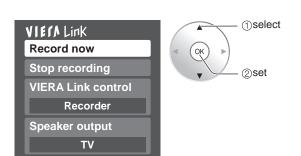
#### ■ Available TV's remote control buttons

		Move the cursor/Select		
	ОК	Set/Access		
	RETURN	Return to the previous menu		
;	GUIDE SUB MENU	Display the Functions menu on the equipment		
	R G B Y	Available when the purpose of the keys is displayed on screen		

- ③ Operate the equipment with the TV's remote control, pointing it at the TV.
- To operate the equipment, read the manual of the equipment.

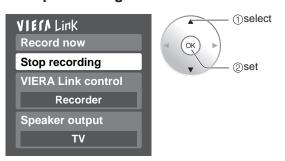
Records the current program on the recorder immediately.

**1**Select "Record now"



 For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.

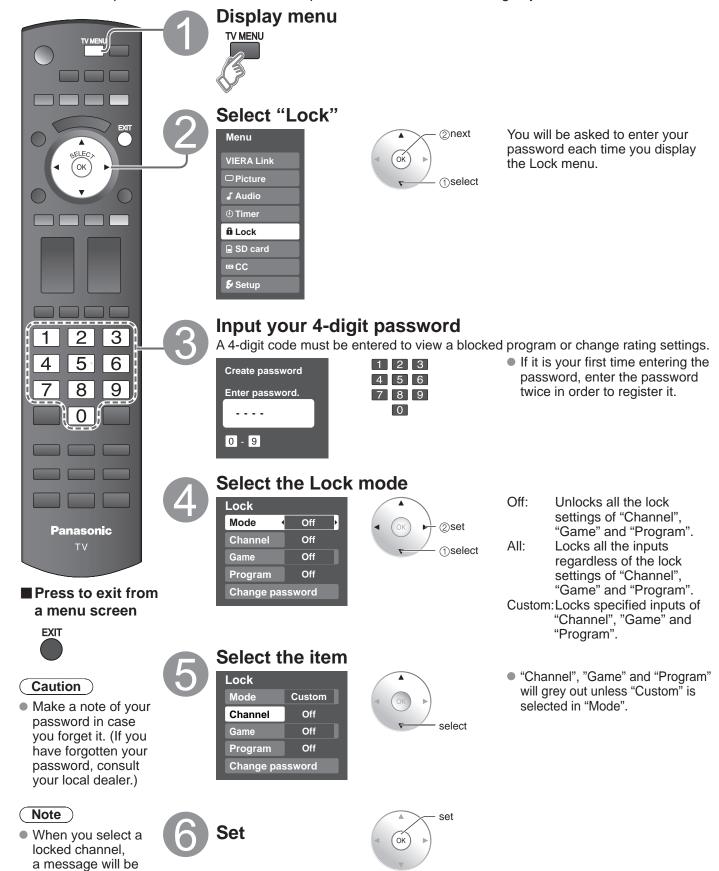
#### ②Select "Stop recording", when you want to stop recording



 Recording will not stop automatically when the program is finished.

## Lock

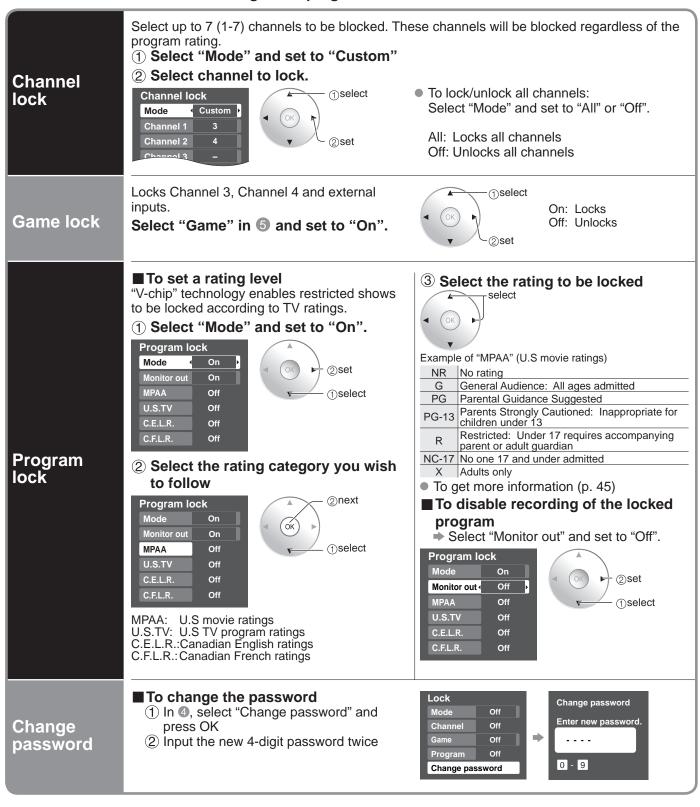
You can lock specified channels or shows to prevent children from watching objectionable content.



displayed that allows you to view the channel if you input

your password.

#### ■ To select the channel or the rating of the program to be locked

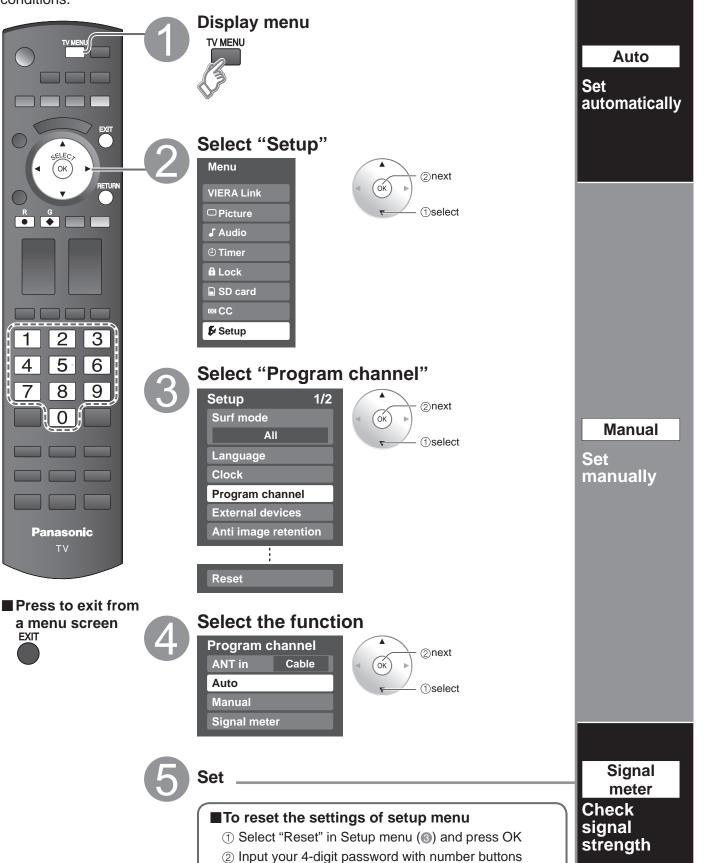


#### Note

- This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
- The Off rating is independent of other ratings.
- When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will also be blocked.

# **Editing and Setting Channels**

The current channel settings can be changed according to your needs and reception conditions.

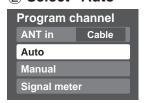


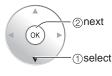
Select "YES" on the confirmation screen and press OK

Automatically searches and adds available channels to the memory.

Select "ANT in"
 Select Cable or Antenna (p. 17)

#### ② Select "Auto"





select

2)next

#### ③ Select a scanning mode (p. 17)



- Settings are made automatically

   After the scanning is completed, select "Apply".

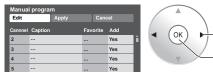
  (see below (5)).
- All previously saved channels are erased.

Use this procedure when changing the channel setup or changing the channel display.

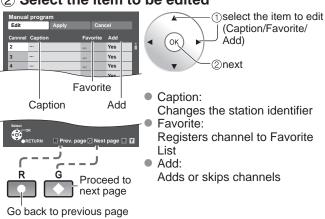
Also, use this to add or skip channels from the channel list manually.

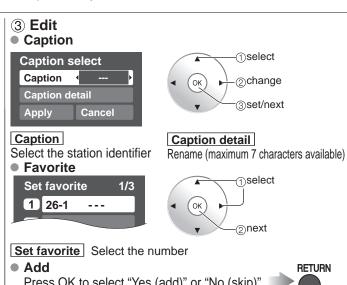
You can select a channel tuning mode (Digital only/ Analog only) in "Surf mode" (p. 26)

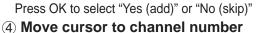
#### 1 Select "Edit"



#### 2 Select the item to be edited



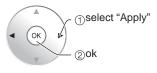




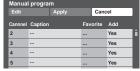






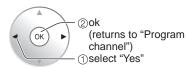


#### To cancel the Edit

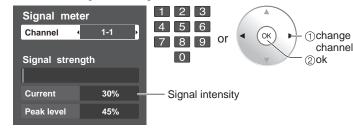








Check the signal strength if interference is found or freezing occurs on a digital image.

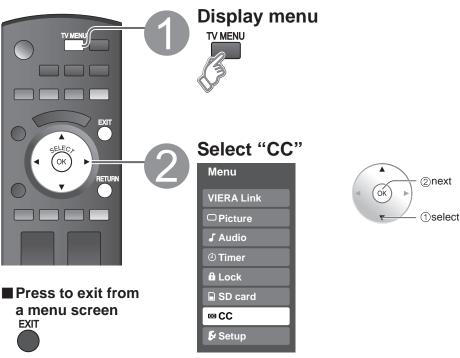


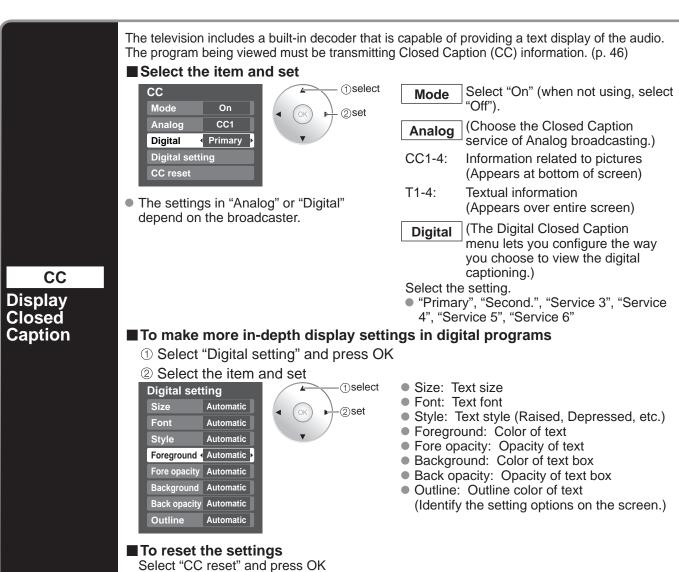
If the signal is weak, check the antenna.
 If no problem is found, consult your local dealer.

### Note

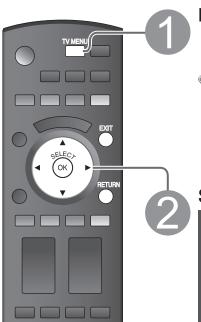
- Not available if "Cable" is selected in "ANT in" (see above).
- Available only for digital antenna channels.

# **Closed Caption**





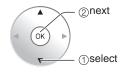
# Input Labels/Monitor Out



Display menu and select "Setup"

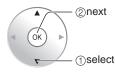






#### Select "External devices"



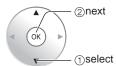


■ Press to exit from a menu screen

(3)

#### Select "Input labels" or "Monitor out"

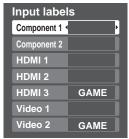


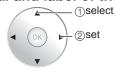


Input labels
Display
labels of
external
devices

Devices connected to external input terminals can be labeled for easier identification during input selection. (In selecting input mode from p. 22 @)

#### ■ Select the terminal and label of the external equipment







[example]

- Terminals: Comp. 1-2/HDMI 1-3/Video 1-2
- Label: SKIP\*/VCR/DVD/CABLE/DBS/PVR/GAME/AUX/ RECEIVER/[BLANK]
- \* If "SKIP" is selected, the TV/VIDEO button press will skip its input.
- Each selected labels will be displayed on "Input select" screen. (p. 22)

To prevent howling and image oscillation, stops output of the pictures and audio specified in this menu. (p. 27)

#### Marriage

Monitor out
Stop output
of the
picture and
audio



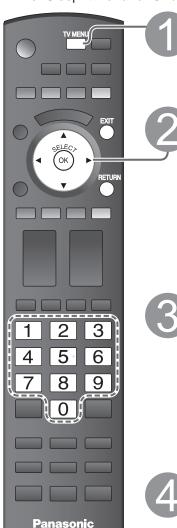


- Select "Off" to stop output of picture and audio. (Video 1/Video 2)
- Component 1/Component 2/HDMI 1/HDMI 2/HDMI 3 cannot output video signals regardless of "Monitor out" setting. When equipment (DVD, etc.) is connected to HDMI or COMPONENT terminals, only audio signals can be obtained. From the output terminals, no video signals can be passed.

## Using Timer

The TV can automatically turn On/Off at the designated date and time.

- The Clock must be set before On time/Off time settings. (p. 16)
- The "Sleep" timer and "On / Off timer" will not work if the "Auto power on" (p. 27) is set.

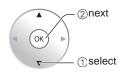


#### Display menu



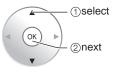
#### Select "Timer"





#### Select the timer to set





Sleep Turns Off automatically Turns On/Off automatically Timer 1 (5 timers can be set.) Timer 5



#### Set the timer

■ To set "Sleep" (Off Timer)

■ To set "Timer 1-5" (On/Off Timer)

Set to shut the unit off after a pre-selected amount of time.



Select the item and set



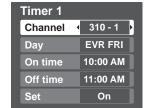
0/30/60/90 (minutes)

#### ■ Press to exit from a menu screen **EXIT**

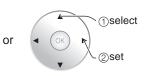


■ Press to return to the previous screen RETURN









#### Note

The TV automatically turns Off after 90 minutes when turned On by the Timer. This operation will be cancelled if the Off time is selected or if a key is pressed.

Channel Select the channel

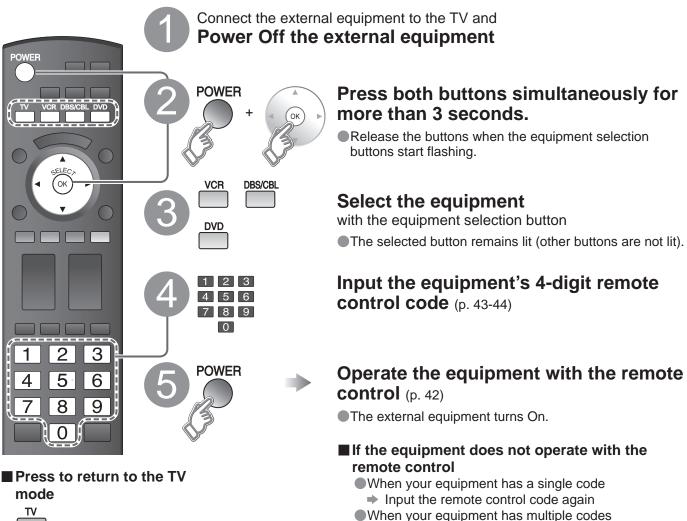
Day Select the day SUN/MON/TUE/WED/THU/FRI/SAT

(displays the nearest future date) MON-FRI/SAT-SUN/DAILY/EVR SUN/EVR MON/ EVR TUE/EVR WED/EVR THU/EVR FRI/ EVR SAT

On time The time to turn On The time to turn Off Off time Set Timer setting (On/Off)

## Programming the Remote to Operate **Peripheral Equipment**

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





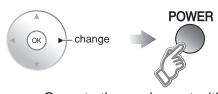
Caution

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

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

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

1 After step 3 above, change the code and test



- Operate the equipment with the remote control (p. 42)
- Repeat until the code is found
- It may take many attempts before the correct code is found

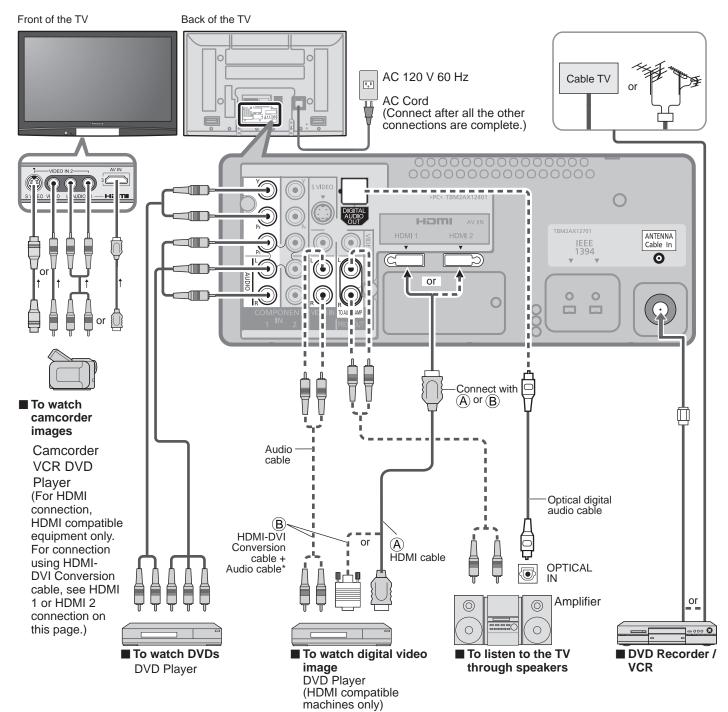
(2) When the correct code is found

Change the code with above and test again



## Recommended AV Connections

These diagrams show our recommendations on how to connect the TV unit to your various equipment. For other connections, consult the instructions for each piece equipment and its specifications. For additional assistance, please visit our website at: www.panasonic.com



#### Note

- The picture and audio input signals connected to a terminal specified in "Monitor out" (p. 37) cannot be output from "PROG OUT" terminals.
  - However, audio output can be obtained from "DIGITAL AUDIO OUT" terminal.
- To prevent howling and image oscillation, set the "Monitor out" setting when connecting the VCR with loop-connection. (p. 26, 37)
- When equipment (DVD, etc.) is connected to HDMI or COMPONENT terminals, no video signals can be passed through PROG OUT terminal.
- When receiving digital channel signals, all digital formats are down-converted to composite NTSC video to be output through the PROG OUT terminals.
- \* Please see p. 24-25 for setup when using an external analog audio cable with an HDMI to DVI cable.

#### VIERA Link™ Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder (DIGA), RAM theater, or Player theater system.

Refer to page 28-31 for Setup Menu settings and additional

control information.

Optional HDMI and/or optical cables are not included.

If connection (or setting) of equipment compatible with HDAVI control is changed, switch the power of this unit Off and On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that the DVD recorder (DIGA), RAM theater, and Player theater playback operate.

#### Note

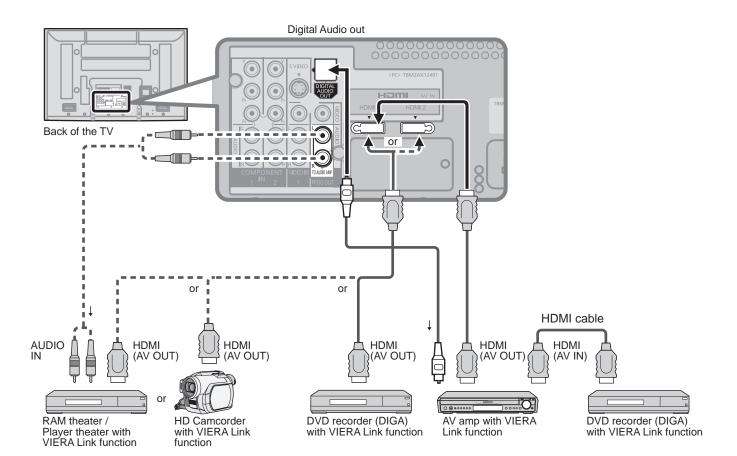
HDMI 1 is recommended.
 When connecting to HDMI 2/HDMI 3, set the input mode to HDMI 2/HDMI 3 (p. 22) initially before connecting to HDMI 2/HDMI 3. After connection, confirm the HDMI control functions (p. 28-31).

### ■ Connecting this unit to the DVD recorder (DIGA), RAM theater, or Player theater

- For DVD recorder (DIGA): Connect with HDMI cable
- For RAM theater and Player theater:
   Connect with the HDMI and audio cables.
   If audio cable is not connected, you cannot listen to the TV program through the theater system.

### ■ Connecting this unit to a DVD recorder (DIGA) AV amp

When using an "VIERA Link" audiovideo amplifier and a compatible DVD recorder (DIGA) use a daisy chain connection as shown below.



- One AV amp and one DVD recorder (DIGA) can be operated with this unit.
- Be sure to connect the AV amp between this unit and the DVD recorder (DIGA).

#### ■ Setting of this unit after connection

After making connections as shown above, set "VIERA Link" (under "VIERA Link setting") to "On" using the Setup menu. (p. 23, 28-29).

#### Note

- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.
- When audio from other equipment connected to this unit via HDMI is output using "DIGITAL AUDIO OUT" of this unit, the system switches to 2CH audio.
  - (When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)
- About HDMI cable for connecting Panasonic HD camcorder, read the manual of the equipment.

# Remote Control Operation/Code List

The following explains how to operate external devices with the TV's remote control.

• Register the remote control codes (p. 39) if you want to operate an external device from another manufacturer. (p. 43-44)

Note

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

#### **■** Remote Control Operation List

This chart defines which keys are operational after programming (if needed) while in the selected remote control mode, CABLE, DBS, VCR, or DVD.

KEY NAME	VCP MODE	VCP MODE DBS/CBL MODE		
	VCR MODE	(DBS)	(CBL)	DVD MODE
POWER	Power	Power	Power	Power
SAP	_	LIST	LIST	DVD AUDIO
VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
TV MENU	_	Menu	Menu	Functions
EXIT	_	Exit	Exit	_
of LEC.	_	Up/Down/Left/Right	Up/Down/Right/Left	Up/Down/Right/Left
GELECY OK	_	Select	Select	Enter
GUIDE SUB MENU	-	Guide	Guide	Sub Menu
RETURN	_	PPV/VOD	PPV/VOD	Return
R	_	Red	A	Red
G	_	Green	В	Green
В	_	Blue	С	Blue
Y	_	Yellow	D	Yellow
↑ CH V	Channel Up/Down	Channel Up/Down	Channel Up/Down	Channel Up/Down
+ vol -	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
FORMAT	_	Aspect	Aspect	_
FAVORITE	_	Favorite	Favorite	Direct Navigator
INFO	Onscreen Display	Info	Info/Display/OSD	Onscreen Display
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
0 - 9	0-9	0-9	0-9	0-9
LAST	-	Last Channel	Last Channel	Drive Select
	_	Sub Channel	Music	PROG (Sub Channel)
V PAGE A	_	Page Down/Up	Page Down/Up	Skip Reverse/Forward
TV/VCR GAME	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	_
USEARCH →	Rewind/Fast Forward	Rewind/Fast Forward	Rewind/Fast Forward	Reverse/Forward
REC	VCR Record	PVR Record *1	PVR Record *1	Record
STOP	Stop	Stop	Stop	Stop
PAUSE	Pause	Pause	Pause	Pause
PLAY	Play	Play	Play	Play

42 \*1: Combination type

#### ■ Remote Control Code List

	verter (C) ( 🔚 )						
Brand	Code	Brand	Code	Brand	Code	Brand	Code
BC	0003, 0007, 0008	Hytex	0007	Philips	0317, 1305	Supercable	0276
OB .	2092	i3 Micro	1602	Pioneer	0144, 0533, 0877, 1877	Supermax	0883
mericast	0899	Jerrold	0003, 0012, 0276, 0476, 0810	Pulsar	0000	Thomson	1256
mino	1602, 1822	Memorex	0000	Quasar	0000	Tocom	0012, 0059
ell South earmaster	0899 0883	Motorola	0276, 0476, 0810, 1106, 1187, 1254, 1376, 1951	RadioShack RCA	0883	Torx Toshiba	0003
learMax	0883	MTS	1951	Regal	0273, 0279	Tristar	0883
ontec	0019	Multitech	0883	Runco	0000	United Artists	0007
oolmax	0883	Myrio	1602, 1822	Samsung	0144	V2	0883
igeo	1187	Oak	0007, 0019	Scientific Atlanta	0008, 0477, 0877, 1877	Viewmaster	0883
Director	0476	Optimus	0021	Sejin	1602	Vision	0883
General Instrument	0003, 0276, 0476, 0810	Pace	0008, 0237, 1877	Sony	1006	Vortex View	0883
SoldStar	0144	Panasonic	0000, 0021, 0107, 0623	Sprucer	0021	Zenith	0000, 0525, 0899
amlin	0009, 0273	Paragon	0000	Starcom	0003		•
Cable/PVR	Combination (C) ( DBS/CBL	``					
mericast	0899	Jerrold	0810	Pioneer	0877, 1877	Supercable	0276
mino	1822	Motorola	0810, 1106, 1187, 1376	RCA	1256	Thomson	1256
igeo	1187	Myrio	1822	Scientific Atlanta	0877, 1877	Zenith	0899
eneral Instrument	0810	Pace	0237, 1877	Sony	1006		'
Satellite Re	eceiver (S) ( )						
lphaStar	0772	GE	0566	Magnavox	0722, 0724	RCA	0143, 0566, 0855, 1392
ell ExpressVu	0775, 1170	General Instrument	0869	Memorex	0724	Samsung	1108, 1109, 1276, 1377, 1442, 1
haparral	0216	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
oolsat	1806	Goodmans	1246	Motorola	0869	Sony	0639, 1639, 1640
rossdigital	1109	Hisense	1535	NEC	1270	Star Choice	0869
irecTV	0099, 0247, 0392, 0566, 0639, 0724,	Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
	0749, 0819, 1076, 1108, 1109, 1142, 1189, 1377, 1392, 1414, 1442, 1443,	HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1189, 1786	Toshiba	0749, 0790, 1285, 1749
	1189, 1377, 1392, 1414, 1442, 1443, 1444, 1609, 1639, 1640, 1749, 1856	Hughes Network	0749, 1142, 1442, 1443, 1444, 1749	Pansat	1807	UltimateTV	1392, 1640
		Systems		Paysat	0724	Ultrasat	1806
ish Network System		Humax	1781, 1790	Philips	0099, 0722, 0724, 0749, 0856, 1076,	Uniden	0722, 0724
ishpro	0775, 1005, 1505, 1775	iLo	1535		1142, 1442, 1749	US Digital	1535
chostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	USDTV	1535
xpressvu	0775, 1775	JVC	0775, 1170, 1775	Proton	1535	Voom	0869
ortec Star	1821, 1948	LG	1226, 1414	RadioShack	0869	Zenith	1810, 1856
dbs/pvr c	Combination (S) ( 🛗 )						
ell ExpressVu	0775, 1170	Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
irecTV	0099, 0392, 0639, 1076, 1142, 1377,	Expressvu	0775	Philips	1142, 1442	Star Choice	0869
	1392, 1442, 1443, 1444, 1640	Hughes Network	1142, 1442, 1443, 1444	Proscan	0392	Tivo	1142, 1442, 1443, 1444
ish Network System	0775, 1505	Systems		RCA	1392	Zenith	1810
ishpro	0775, 1505	JVC	1170	Samsung	1442		
VCR (V) ( 🖺	<sup>CR</sup> )						
BS	1972	GE	0035, 0060, 0202, 0240, 0761, 0807,	Multitech	0000, 0072	Sanyo	0046, 0047, 0104, 0159, 0240
ccurian	0000	02	1035, 1060, 2613	NEC	0038, 0040, 0041, 0050, 0067, 0104	Scott	0043, 0045, 0121, 0184, 0212
dmiral	0048, 0209	Go Video	0432, 0526, 0614, 0643, 1137	Nikko	0037	Sears	0000, 0035, 0037, 0042, 0046, 0
dventura	0000	GoldStar	0037, 0038, 1137, 1237	Nikon	0034		0104, 0105, 1237
iko	0278	Gradiente	0000	Niveus Media	1972	Sharp	0048, 0807, 0848
iwa	0000, 0037, 0124, 0307, 0468	Harley Davidson	0000	Noblex	0240	Shintom	0072
kai	0041, 0061, 0106, 0175, 0242	Harman/Kardon	0038, 0075, 0081	Northgate	1972	Shogun	0240
lienware	1972	Harwood	0068, 0072	Olympus	0035, 0226	Singer	0072
llegro	1137	Headquarter	0046	Onkyo	0222	Sonic Blue	0614, 0616, 1137
merica Action	0278	Hewlett Packard	1972	Optimus	0037, 0048, 0104, 0162, 0432, 0593, 1048, 1062, 1162, 1262	Sony	0000, 0032, 0033, 0034, 0035, 0 1032, 1972
merican High	0035	HI-Q	0047				
sha	0240	Hitachi	0000, 0041, 0042, 0089, 0105, 2613	Orion	0002, 0184, 0209, 0479, 1479	Stack 9	1972
udio Dynamics	0040	Howard Computers	1972	Panasonic	0035, 0077, 0102, 0162, 0225, 0226, 0227, 0246, 0378, 0485, 0614, 0616,	STS	0042
udiovox	0037, 0278	HP	1972		0837, 1035, 1062, 1162, 1244, 1262,	Sylvania	0000, 0035, 0043, 0081, 0110, 0 1593, 1781
eaumark ell & Howell	0240	Hughes Network Systems	0042, 0739		1562, 1807, 1808, 1809	Comphania	1117
roksonic	0002, 0121, 0184, 0209, 0348,		0739, 1797, 1988	Penney		Symphonic	0000, 0593, 1593
	0479, 1479	Humax		1 011110)	0035, 0037, 0038, 0040, 0042, 0240, 1035, 1237	Systemax Tagar Systems	1972
	0479, 1479	Hush	1972		1035, 1237	Tagar Systems	1972
alix	0479, 1479 0037	Hush iBUYPOWER	1972 1972	Pentax	1035, 1237 0042, 0105,	Tagar Systems Tashiko	1972 0037
alix anon	0479, 1479	Hush	1972		1035, 1237	Tagar Systems	1972
alix anon aptive Works	0479, 1479 0037 0035, 0102	Hush iBUYPOWER Instant Replay	1972 1972 0035, 0226	Pentax Philco	1035, 1237 0042, 0105, 0035	Tagar Systems Tashiko Tatung	1972 0037 0041
alix anon aptive Works arver	0479, 1479 0037 0035, 0102 2167	Hush iBUYPOWER Instant Replay Jensen	1972 1972 0035, 0226 0041	Pentax Philco	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739,	Tagar Systems Tashiko Tatung Teac	1972 0037 0041 0000, 0041
alix anon aptive Works arver CE	0479, 1479 0037 0035, 0102 2167 0081	Hush iBUYPOWER Instant Replay Jensen JVC	1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079	Pentax Philco Philips	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181	Tagar Systems Tashiko Tatung Teac Technics	1972 0037 0041 0000, 0041 0035, 0162, 0246
alix anon aptive Works arver CE	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278	Hush iBUYPOWER Instant Replay Jensen JVC KEC	1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278	Pentax Philco Philips Pilot	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037	Tagar Systems Tashiko Tatung Teac Technics Teknika	1972 0037 0041 0000, 0041 0005, 0162, 0246 0000, 0035, 0037
alix anon aptive Works arver CE neVision tizen	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak	1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067	Pentax Philco Philips Pilot Pioneer	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337	Tagar Systems Tashiko Tatung Teac Technics Teknika Thomas	1972 0037 0041 0000, 0041 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240
alix anon aptive Works arver DE neVision tizen bit	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG	1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010	Pentax Philco Philips  Pilot Pioneer Polk Audio Presidian Profitronic	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337 0081 1593 0240	Tagar Systems Tashiko Tatung Teac Technics Teknika Thomas Tivo	1972 0037 0041 0000, 0041 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240
alix anon apptive Works arver CE ineVision titzen olt traig urtis Mathes	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0070, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys	1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010	Pentax Philco Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba	1972 0037 0041 0000, 0041 0005, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996
alix anon aptive Works arver CE ineVision itizen olt tarig urtis Mathes ybernex	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240	Hush iBUVPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's	1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972	Pentax Philco Philips Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072	Tagar Systems Tashiko Tatung Teac Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision	1972 0037 0041 0000, 0041 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240
aliix anon aptive Works arver CE ineVision titzen olt traitg urtis Mathes ybernex yberPower	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linkys Linkys Logik	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0072	Pentax Philco Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar	1035, 1237 0042, 0105, 0035 0035, 0081, 0110, 0618, 0739, 1081, 1181 0037 0067, 1337 0081 1593 0240 0060, 0202, 0761, 1060 0072 0039	Tagar Systems Tashiko Tathing Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch	1972 0037 0041 0000, 0041 0000, 0140 0005, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1972
alix anon apptive Works arver CCE neVision titizen olt raig urtis Mathes ybernex yberPower aewoo	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech	1972 0037 0041 0000, 0041 0000, 0041 0005, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240
alix anon aptive Works arver DE neVision tizen olt tizen olt tris Mathes ybernex yberPower aweve abX	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0046, 0278, 0561, 0637, 1137, 1278 0040, 0050	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 00072 0000, 0208	Pentax Philco Philips Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech	1972 0037 0041 0000, 0041 0000, 0041 0005, 0162, 0246 0000, 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045
aliix anon aptive Works arver DE nevision tizen olt traig ruris Mathes ybernex yberPower aewoo aewo	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0046, 0278, 0561, 0637, 1137, 1278 0040, 0050	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quasar	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0035, 0077, 0162, 1035, 1162	Tagar Systems Tashiko Tatung Teac Technics Teknika Thomas Tivo TNK Toshiba Totevision Touch Unitech Vector Vector Research	1972 1972 10037 10041 10000, 0041 10003, 0162, 0246 10000, 0035, 0037 1000 10618, 0636, 0739, 1337, 1996 1208, 0240 10043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1972 10240 10045 10037, 0240 1972 10240 10045 10038, 0040
alix anon pptive Works arver CEE neVision tizen otizen oti	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0059, 1278 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781	Pentax Philco Philips  Pilot Pioneer Polk Audio Profitronic Proscan Protec Pulsar Quartz Quartz Quartz RadioShack	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts	1972 0037 0041 0000, 0041 0000, 0140 0005, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0045, 0061
allix annon patrive Works arver  DE eneVision titizen bit aig airtis Mathes whereNever sewoo 3X all eneonon mensia	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0046, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0042 2613	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240	Pentax Philoo Philips Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quasar RadioShack Radix	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0067, 1337  0061  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Video Concepts	1972 0037 0041 0000, 0041 0000, 0041 0000, 005, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061
alix anon aptive Works arver DE neVision tizen olt traig urits Mathes y/berPower aeewoo abX all enono mensia	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0046, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0040, 0050	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0039, 1278 0000, 035, 039, 0381, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081	Pentax Philco Philips Pilot Pioneer Polk Audio Presidian Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quasar RadioShack Radix Randex	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037	Tagar Systems Tashiko Tatung Teac Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videosonic	1972 10037 10041 10000, 0041 10000, 0041 10000, 0035, 0162, 0246 10000, 0035, 0037 10000 10618, 0636, 0739, 1337, 1996 10208, 0240 10043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1037, 0240 1972 10240 10045 10037, 0240 10045 10038, 0040 10040, 0045, 0061 10037 10240
allix anon aptive Works arver DE neVision tizen obit aig artis Mathes r/bernex r/bernex r/bernex aewoo 3X all aenon mensia reroTV urabrand	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0035, 0041, 0060, 0162, 1035 0240 1397 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1397 0042 2613 0739 0038, 0039	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0037 0039 10593, 1278 0000, 035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781	Pentax Philoo Philips Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quasar RadioShack Radix	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0808, 1036, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1036, 1048,	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videomagic Videosonic Viewsonic	1972 1972 10037 10041 10000, 0041 10000, 0041 10000, 0035, 0162, 0246 10000, 0035, 0037 10000 10618, 0636, 0739, 1337, 1996 10208, 0240 1043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 10037, 0240 11972 10240 10045 10038, 0040 10040, 0045, 0061 10037 10240 1972
alix anon aptive Works arver CDE neVision tizen olt variag urtis Mathes ybernex yberPower sewoo 3X sell enon mensia recTV urabrand natech	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1372 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1372 0042 2613 0739 0038, 0039 0000	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Matta Media Center PC	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972	Pentax Philco Philips Pilot Pioneer Polk Audio Presidian Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quasar RadioShack Radix Randex	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videosonic Viewsonic Villain	1972 0037 0041 0000, 0041 0005, 0162, 0246 0000, 035, 037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0036, 0045, 0045 0037 0240 0040, 0045, 0061
alix anon aptive Works arver CEE CEE CEE Intervision Itizen olt rarig urtis Mathes yberPower aewoo BX ell enon mensia recTV urabrand ynatech ectrohome	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 047, 072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0040, 0050 1972 0040, 0050 1972 0042 2613 0739 0038, 0039 0030 0000 0007	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Media Center PC MEI	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081	Pentax Philoo Philips Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quarter AddioShack Radix Randex RCA	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videomagic Videosonic Viewsonic Villain Voodoo	1972 1972 10037 10041 10000, 0041 10003, 0162, 0246 10000, 0035, 0037 1000 10618, 0636, 0739, 1337, 1996 10208, 0240 10043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1037, 0240 1972 10045 10037, 0240 10045 10037, 0240 10040, 0045, 0061 10037 10240 1037 10240 1037 10240 1037 10240 1037 10240 1037 10240 1037 10240 1037 10240 1037 10240 1037 10240 1037
alix anon aptive Works arver CE neVision tizen obit aitig urtis Mathes y/bernex y/bernex y/bernex aewoo 3X all enon mensia recTV urabrand ynatech ectrophonic	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0037, 0278, 1278 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1372 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1372 0042 2613 0739 0038, 0039 0000 0037	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Matta Media Center PC	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0000, 035, 039, 0081, 0110, 0149, 0563, 0693, 1335, 1593, 1781 0240 0035, 0081 0037 1972 1972 0036 0000, 035, 037, 039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0377 0000, 035, 037, 039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0377	Pentax Philco Philips Pilot Pioneer Polk Audio Presidian Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quasar RadioShack Radix Randex	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1049, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0880, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0808, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0808, 1036, 1036, 1048, 0202, 0240, 0761, 0807, 0807, 0807, 0808, 1036, 1036, 1048,	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videosonic Viewsonic Villain	1972 1972 10037 10041 10000, 0041 10003, 0162, 0246 10000, 0035, 0037 1000 10618, 0636, 0739, 1337, 1996 10208, 0240 10043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1037, 0240 1972 10045 10037, 0240 10045 10038, 0040 10040, 0045, 0061 10037 10240 1972 10000 1972
allix anon pptive Works arver DE neVision tizzen bit aig urtis Mathes beenex beenex beenex beenex aewoo 3X all enon mensia erecTV urabrand urabrand urabech eetrophonic nerex	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0048, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0040, 0050 1972 0041 0032, 0041 0033, 0041 0042 2613 0739 0038, 0039 0000 0037 0037	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Media Center PC MEI	1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0037 0036, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quartz AddioShack Radix Randex RCA  Realistic	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 0104	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videosonic Videosonic Vilesionic Villain Voodoo	1972 0037 0041 0000, 0041 0005, 0162, 0246 0000, 035, 0162, 0246 0000, 035, 037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000 1972 00000 1972
allix anon pptive Works arver DE neVision tizzen bit aig urtis Mathes beenex beenex beenex beenex aewoo 3X all enon mensia erecTV urabrand urabrand urabech eetrophonic nerex	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0048, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0040, 0050 1972 0041 0032, 0041 0033, 0041 0042 2613 0739 0038, 0039 0000 0037 0037	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak Lig Linksys Lioyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Media Center PC MEI Memorex	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1937, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 035, 039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0035 0000, 035, 037, 039, 0046, 0047, 0048, 0104, 0152, 0209, 0240, 0397, 0348, 0479, 1037, 1162, 1237, 1262	Pentax Philico Philips Pillot Pioneer Polk Audio Presidian Prosican Protec Pulsar Quarter Quartz Quasar RadioShack Radix Randex RCA Realistic ReplayTV	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0042, 0060, 0077, 0165, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 1044, 0048, 1044  0614, 0616	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Vector Research Video Concepts Videomagic Videosonic Viewsonic Villain Voodoo Wards White Westinghouse	1972 0037 0041 0000, 0041 0000, 0041 0000, 005, 0162, 0246 0000, 0035, 0162, 0246 0000, 0035, 0040 00618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0046, 0045, 0061 0037 0240 1972 0000, 0045, 0045, 0061 0037 0240 1972 0000, 0051, 0149, 0212, 0240 0072, 0081, 0149, 0212, 0240 0072, 0209, 0637
alix anon prive Works arver DE neVision litzen lit aig urits Mathes beenex beerPower leewoo 3X ali enon mensia recTV urrabrand matech estrophonic nerex	0479, 1479  0037  0035, 0102  2167  0081  1072, 0278  1137  0037, 0278, 1278  0072  0037, 0047, 0072, 0240  0035, 0041, 0060, 0162, 1035  0240  1972  0046, 0278, 0561, 0637, 1137, 1278  0040, 0050  1972  0042  2613  0739  0038, 0039  0000  0037  0039  00000  00000  00000  00000  00000  0000	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Media Center PC MEI Memorex	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0000, 035, 039, 0081, 0110, 0149, 0563, 0693, 1335, 1593, 1781 0240 0035, 0081 0037 1972 1972 0036 0000, 035, 037, 039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0377 0000, 035, 037, 039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0377	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quartz AddioShack Radix Randex RCA  Realistic	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 0104	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videosonic Videosonic Vilesionic Villain Voodoo	1972 0037 0041 0000, 0041 0005, 0162, 0246 0000, 035, 0162, 0246 0000, 035, 037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000 1972 00000 1972
allix anon pptive Works arver DE neVision tizzen bit aig urtis Mathes beenex beenex beenex beenex aewoo 3X all enon mensia erecTV urabrand urabrand urabech eetrophonic nerex	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0037, 0047, 0072, 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0048, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0040, 0050 1972 0041 0032, 0041 0033, 0041 0042 2613 0739 0038, 0039 0000 0037 0037	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Media Center PC MEI Memorex MGA MGN Technology	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0037 0038, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0035 0037 1972 0035 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0290, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262 0043, 0061, 0240 0043, 0061, 0240	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quartz AddioShack Radix Randex RCA  Realistic  ReplayTV Ricavision Ricoh	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 0104  0614, 0616	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videomagic Vide	1972 0037 0041 0000, 0041 0000, 0041 0000, 0035, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0037, 0240 1972 0240 0045 0038, 0040 0040, 0045, 0061 0037 0240 1972 0000 1972 0000 1972 0000 0038, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240 0072, 0081, 0149, 0212, 0240 0072, 0081, 0149, 0212, 0240 0072, 0081, 0149, 0212, 0240 0072, 0090, 0637 0000, 0035, 0072
alix anon aptive Works arver CEE neVision tizen olt tizen olt raig rris Mathes ybernex ybernex ybernex aswoo BX all anon mensia recTV urrabrand rnatech ectrophomic merex merson	0479, 1479  0037  0035, 0102  2167  0081  1072, 0278  1137  0037, 0278, 1278  0072  0037, 0047, 0072, 0240  0035, 0041, 0060, 0162, 1035  0240  1972  0046, 0278, 0561, 0637, 1137, 1278  0040, 0050  1972  0042  2613  0739  0038, 0039  0000  0037  0039  00000  00000  00000  00000  00000  0000	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Marta Media Center PC MEI Memorex	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0037 0583, 1278 0000, 0208 0072 0037 0583, 1278 0000, 035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0037 1972 0038 0000, 0035, 0039, 0040, 0047, 0048, 0149	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quarter Quartz AudioShack Radix Randex RCA  Realistic  ReplayTV Ricavision Ricoh Rio	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 0104  0614, 0616  1972  0034  1137	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videomagic Videomagic Videosonic Viewsonic Villalin Voodoo Wards Wards XR-1000 Yamaha Zenith	1972 1972 10037 10041 10000, 0041 10005, 0162, 0246 10000, 0035, 0162, 0246 10000, 0035, 0037 10000 10618, 0636, 0739, 1337, 1996 10208, 0240 1043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1037, 0240 1972 10240 1045 10045 10038, 0040 10040, 0045, 0061 10037 10240 1972 10000 1972 10000 1972 10000 1972 10000, 0035, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240 1072, 0209, 0637 10000, 0035, 0042, 0047, 0048, 0072, 0038, 0040 10000, 0035, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240 10000, 0035, 0072 10038 10000, 0035, 0072 10038 10000, 0033, 0034, 0039, 0209, 0637, 1137, 1139, 1479
alix anon aptive Works anver CEE neVision titizen olt raig urtis Mathes ybernex ybernex yberPower aewoo BX ell enon imensia rrecTV urabrand ynatech	0479, 1479  0037  0035, 0102  2167  0081  0072, 0278  1137  0037, 0278, 1278  0072  0035, 0041, 0060, 0162, 1035  0240  1972  0040, 0050  1972  0040, 0050  1972  2613  0739  0000  0038, 0039  0000  0037  0037  0037  0037  0037  0037  0037  0037  0037  0037  0037  0039  0000  0038, 0039  0000  0037  0037  0037  0037  0037  0037  0037  0039  0000  0039  0000  0037  0037  0039  00000  0037  0037  0037  0039  0000  0039  0000  0037  0037  0037  0037  0037  0037  0037  0039  0000  0039  0000  0037  0037  0037  0037  0037  0037  0037  0039  0044, 0061, 0068, 0078  0079, 0061, 0068, 0078  0079, 0061, 0068, 0078  0079, 0061, 0068, 0067  0079, 0661, 0683, 0637, 1278, 1479, 1593	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Media Center PC MEI Memorex MGA MGN Technology Microsoft	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0037, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0038 0000, 0035, 0037, 0039, 0046, 0047, 0048, 0144, 0162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262 0043, 0061, 0240 0043, 0061, 0240 0043, 0061, 0240 0043, 0061, 0240 0044, 0162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262	Pentax Philico Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quartz Quartz AddioShack Radix Randex RCA  Realistic  ReplayTV Ricavision Ricoh	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 0104  0614, 0616	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videomagic Vide	1972 0037 0041 0000, 0041 0000, 0041 0000, 0104 0000, 0105, 0162, 0246 0000, 0035, 0037 0000 0618, 0636, 0739, 1337, 1996 0208, 0240 0043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 0045 0040, 0045, 0212, 0845, 1008, 1972 0240 0040, 0045, 0061 0037 0040 0040, 0045, 0061 0037 0240 1972 0000 01972 01972 0000 0045 0074, 0209, 0637 0077, 0209, 0837 0077, 0209, 0837 0077, 0209, 0837 0000, 0035, 0042, 0047, 0048, 0072, 0081, 0149, 0212, 0240
alix anon aptive Works anon aptive Works arver CE Ene-Vision itizen olt traig urtis Mathes yberPower aewoo BX ell enon mensia receTV urabrand ynatech ectrophonic merex merson	0479, 1479  0037  0035, 0102  2167  0081  1137  0037, 0278, 1278  0072, 0278  1137  0037, 0278, 1278  0038, 0041, 0060, 0162, 1035  0240  1972  0046, 0278, 0561, 0637, 1137, 1278  0040, 0050  1972  0042  2613  0739  0038, 0039  0000  0037  0043, 0061, 0068, 0121, 0149,	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Llogik LXI Magnasonic Magnasonic Magnarox Magnin Marantz Marta Media Center PC MEI Memorex MGA MGN Technology Microsoft Mind	1972 1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0000, 0208 0072 0007, 0278 0000, 0208 0072 0035, 037 1037, 1137, 2010 1972 0037 0000, 035, 0039, 0081, 0110, 0149, 0563, 0593, 1328 0000, 035, 053, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0037 1972 0038 0000, 035, 0037, 0039, 0046, 0047, 0048, 0144, 0162, 0209, 0240, 037, 0348, 0479, 1037, 1162, 1237, 1262 0043, 0061, 0240 0240, 1972 1972 1972 1972 1972 1074, 0048, 0161, 0270, 0075, 0173, 0214, 0043, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0045, 0061, 0067, 0075, 0173, 0214, 0061, 0067, 0075, 0173, 0214, 0061, 0067, 0075, 0173, 0214, 0061, 0067, 0075, 0173, 0214, 0061, 0067, 0075, 0173, 0214, 0061, 0067, 0075, 0173, 0214, 0061, 0067, 0075,	Pentax Philco Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quarter Quarter Quartz Quasar RadioShack Radix Randex RCA  Realistic  ReplayTV Ricavision Ricoh Rilo Runco	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 2020, 2040, 0761, 0807, 0880, 1035, 1060, 2613  0000, 0035, 0037, 0046, 0047, 0048, 0104  0081, 0104  0090, 0035, 0037, 0046, 0047, 0048, 0104  0081, 0104  0090, 0035, 0037, 0046, 0047, 0048, 0104  1137  0034	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videomagic Videomagic Videosonic Viewsonic Villalin Voodoo Wards Wards XR-1000 Yamaha Zenith	1972 1972 10037 10041 10000, 0041 10005, 0162, 0246 10000, 0035, 0037 10000 10618, 0636, 0739, 1337, 1996 10208, 0240 1043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1037, 0240 11972 10240 1045 10038, 0040 1040, 0045, 0061 1037 10240 11972 10000 11973 11973 11974 11975 1
alix anon apptive Works arver CCE neVision itizen obit train	0479, 1479 0037 0035, 0102 2167 0081 0072, 0278 1137 0037, 0278, 1278 0072 0035, 0041, 0060, 0162, 1035 0240 0035, 0041, 0060, 0162, 1035 0240 1972 0045, 0278, 0561, 0637, 1137, 1278 0040, 0050 1972 0042 2613 0739 0038, 0039 0000 0037 0032 0000, 0002, 0037, 0043, 0061, 0068, 0121, 0184, 0258, 0269, 0278, 0479, 0661, 0593, 0637, 1278, 1479, 1593	Hush iBUYPOWER Instant Replay Jensen JVC KEC Kenwood KLH Kodak LG Linksys Lloyd's Logik LXI Magnasonic Magnavox Magnin Marantz Media Center PC MEI Memorex MGA MGN Technology Microsoft Minolta	1972 1972 1972 1972 0035, 0226 0041 0008, 0041, 0067, 2079 0037, 0278 0038, 0041, 0067 0072 0035, 0037 1037, 1137, 2010 1972 0000, 0208 0072 0037 0593, 1278 0000, 0035, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0037 0037 0039, 0039, 0039, 0081, 0110, 0149, 0563, 0593, 1335, 1593, 1781 0240 0035, 0081 0037 1972 0035 0037 1972 0035 0037, 0039, 0046, 0047, 0048, 0104, 0162, 0209, 0240, 0307, 0348, 0149, 10162, 0209, 0240, 0307, 0348, 0479, 1037, 1162, 1237, 1262 0043, 0061, 0240 0240, 1972	Pentax Philco Philips  Pilot Pioneer Polk Audio Presidian Profitronic Proscan Protec Pulsar Quartz Quartz Quartz RadioShack Radix Randex RCA  Realistic  ReplayTV Ricavision Ricoh Rio Runco Salora	1035, 1237  0042, 0105, 0035  0035, 0081, 0110, 0618, 0739, 1081, 1181  0037  0067, 1337  0081  1593  0240  0060, 0202, 0761, 1060  0072  0039  0046  0046  0046  0035, 0077, 0162, 1035, 1162  0000, 1037  0037  0037  0042, 0060, 0077, 0105, 0106, 0149, 0202, 0240, 0761, 0807, 0880, 1035, 1060, 2611  0000, 0035, 0037, 0046, 0047, 0048, 0104  0614, 0616  1972  0034  1137  0039  0075	Tagar Systems Tashiko Tashiko Tatung Teac Technics Teknika Thomas Tivo TMK Toshiba Totevision Touch Unitech Vector Research Video Concepts Videomagic Videomagic Videosonic Viewsonic Villalin Voodoo Wards Wards XR-1000 Yamaha Zenith	1972 1972 10037 10041 10000, 0041 10005, 0162, 0246 10000, 0035, 0037 10000 10618, 0636, 0739, 1337, 1996 10208, 0240 1043, 0045, 0212, 0845, 1008, 1972, 1988, 1996 1037, 0240 11972 10240 1045 10038, 0040 1040, 0045, 0061 1037 10240 11972 10000 11973 11973 11974 11975 1

# Remote Control Operation/Code List (Continued)

#### ■ Remote Control Code List

Brand	Combination (V) ( )	Brand	Code	Brand	Code	Brand	Code
DirecTV	0739	Hughes Network	0739	Philips	0739	Tivo	0739
	DREICEI	Systems		Samsung	0739		·
	rder (V) ( 🛗 )						
ignavox	0000						
PVR (V) ( "	)						
3S	1972	Hughes Network Systems	0739	Northgate	1972	Tagar Systems	1972
ienware aptive Works	1972 2167	Humax	0739, 1797, 1988	Panasonic Philips	0614, 0616, 1807, 1808, 1809 0618, 0739	Tivo Toshiba	0618, 0636, 0739, 1337 1008, 1972, 1988, 1996
berPower	1972	Hush	1972	Pioneer	1337	Touch	1972
ell	1972	iBUYPOWER	1972	RCA	0880	Viewsonic	1972
recTV	0739	LG	2010	ReplayTV	0614, 0616	Voodoo	1972
ateway o Video	1972 0614	Linksys Media Center PC	1972 1972	Samsung Sonic Blue	0739 0614, 0616	ZT Group	1972
ewlett Packard	1972	Microsoft	1972	Sony	0636, 1972		
oward Computers	1972	Mind	1972	Stack 9	1972		
Р	1972	Niveus Media	1972	Systemax	1972		
OVD (Y) (	)						
ccurian	0675, 1072, 1416	Emerson	0591, 0675, 1268	Malata	0782, 1159	Sampo	0698, 0752
lcom	1094	Enterprise	0591	Marantz	0539	Samsung	0199, 0490, 0573, 0820, 0899, 1 1075, 1470
wa kai	0641 0695, 0770, 0899, 1089	ESA Fisher	0670	McIntosh Memorex	1273 0695, 0831, 1270	Sansui	0695
CO	0790	Funai	0675, 1268, 1334	Microsoft	0522, 1708, 2083	Sanyo	0670, 0695, 0873
legro	0869	Gateway	1073, 1077, 1158	Mintek	0717, 0839, 1472	Sensory Science	1158
mphion Media Worl		GE	0522, 0717, 0815	Mitsubishi	0521, 1521	Sharp	0630, 0675, 0752, 1256
MW Dinital	0872, 1245	Go Video	0715, 0741, 0744, 0783, 0833, 0869, 1044, 1075, 1099, 1144, 1158,	Momitsu	1082	Sharper Image	1117
ex Digital	0672, 0717, 0755, 0794, 0796, 0797, 1004, 1020, 1056, 1061, 1100		1304, 1730	NAD Nakamichi	0692, 0741 1222	Sherwood Shinsonic	0633, 0770, 1043, 1077 0533, 0839
rgo	1023	Go Vision	1072	NEC	0785	Sigma Designs	0674
spire Digital	1168, 1407	GoldStar	0741	Nesa	0717	Sonic Blue	0869, 1099
star	1678, 1679	GPX	0699, 0769	Next Base	0826	Sony	0533, 0864, 1033, 1069, 1070, 1 1432, 1433, 1516, 1533, 1536, 1
udiologic	0736	Greenhill	0717	NexxTech	1402		1791, 1824, 1892, 1903, 1904,
udiovox kion	0790, 1041, 1072, 1121, 1122 1072	Harman/Kardon Helios	0582, 0702 2080	Norcent Nova	0872, 1003, 1107, 1265 1517		1981, 2020, 2043
& K	0655, 0662	Hello Kitty	0831	Onkyo	0503, 0627, 0792, 1769	Sova	1122
BK	1224	Hitachi	0573, 0664, 1247	Орро	0575, 1224 1525	Sungale	1074
el Canto Design	1571	Hiteker	0672	OptoMedia Electronics	0896	SVA	0860, 1105
aupunkt	0717	Humax	1500, 1588	Oritron	0651	Sylvania	0675, 1268
ue Parade roksonic	0571 0695, 1419	Initial	1348, 1472 0717, 1472	Panasonic	0458, 0490, 0632, 0703, 1010, 1011, 1362, 1462, 1464, 1490, 1641, 1762,	Symphonic TAG McLaren	0675 0894
AVS	1057	Insignia	1268, 2095		1907, 1908, 1909, 1910, 1925, 1986, 1990, 2017, 2060, 2061, 2062	Teac	0790
inea	0831	Integra	0627	ı	,,,,,	Technics	0490, 0703
inego	1399	Jaton	1078	Philco	0675	Technosonic	0730
ineVision	0833, 0869, 0876	JBL	0702	Philips	0503, 0539, 0646, 0675, 1267, 1340, 1354, 2056, 2084	Techwood	0692
oby	0695, 1277, 1587, 2116 0778, 0852, 1086, 1107, 1165, 1177,	JSI JVC	1423 0558, 0623, 0867, 1164, 1275,	Pioneer	0142, 0525, 0571, 0631, 0632, 1571	Terapin Theta Digital	1031 0571
00)	1351, 1628	0.0	1550, 1602	Polaroid	1020, 1061, 1086, 1245, 1316,	Tivo	1503
raig	0831	jWin	1049, 1051, 1675		1478, 2130	Toshiba	0503, 0695, 1045, 1154, 1503, 1
urtis Mathes	1087	Kawasaki	0790	Polk Audio	0539		1608, 1769, 1854
yberHome	0816, 0874, 1023, 1024, 1117, 1129, 1502, 1537	Kenwood	0490, 0534, 0682 0717, 0790, 1020, 1149	Portland Presidian	0770 0675, 1072	Urban Concepts	0799, 0800, 0803, 0804 0503
aewoo	0705, 0784, 0833, 0869, 1169, 1172,	Konka	0711, 0790, 1020, 1149	Princeton	0674	US Logic	0839
	1234, 1242, 1441	Koss	0651, 0896, 1423	Proscan	0522	Venturer	0790
enon	0490, 0634, 1634	Landel	0826	ProVision	0778	Vizio	1064, 1226
esay	1407	Lasonic	0798, 1173	Qwestar	0651	Vocopro	1027, 1360
amond Vision	1316	Lenoxx	1127 0591, 0741, 0869	RCA	0522, 0571, 0717, 0790, 0822, 1022, 1132, 1769	Xbox	0522, 1708, 2083
isney ual	0675, 1270 1068, 1085	LiteOn	1058, 1158, 1416, 1440, 1656	Rio	0869	Xwave Yamaha	1001 0490, 0497, 0539, 0545
urabrand	1127	Loewe	0511	RJTech	1360	Zenith	0503, 0591, 0741, 0869
/D2000	0521	Magnavox	0503, 0539, 0646, 0675, 1268, 1354,	Rotel	0623, 1178	Zoece	1265
ectrohome	2116		1472, 1506	Rowa	0823		
OVD-Reco	rder (Y) ( 🛗 )						
ccurian	0675, 1416	Funai	0675, 1334	Panasonic	0490, 1010, 1011, 2060, 2061, 2062	Sony	1033, 1069, 1070, 1431, 1432, 1433, 1536
ex Digital	1056	Gateway	1073, 1158	Philips	0646, 1340		
spire Digital oksonic	1168 1419	Go Video	0741, 1158, 1304, 1730 1348	Pioneer Polaroid	0631 1086, 2130	Sylvania Toshiba	0675 1588
oksonic tizen	2116	JVC	1164, 1275	RCA	0522	Zenith	0741
by	1086	LG	0741	Samsung	0490, 1470		1-7.11
berHome	1129, 1502	LiteOn	1158, 1416, 1440	Sensory Science	1158		
ectrohome	2116	Magnavox	0646, 0675, 1506	Sharp	0675		
Blu-ray Dis	sc (Y) ( 🛗 )						
3	0741	Philips	2084	Samsung	0199		
anasonic	1641, 2061, 2062	Pioneer	0142	Sony	1516		
	′) ( 🛗 )						
ID-D <u>VD (Y</u>	0741	Onkyo	1769	RCA	1769	Toshiba	1769
<u> </u>	0741						
	DVD						
₃ HTiB (Y) ( ¡	) )	Panasonic	0458, 1779, 1907, 1908, 1909, 1910	Rio	0869	Teac	0790
HD-DVD (Y G HTiB (Y) ( ( wa udiovox	) 0641 0790	Panasonic	0458, 1779, 1907, 1908, 1909, 1910, 1925, 1990, 2017	Rio Sherwood	0869 1077	Teac Toshiba	0790 1854
HTiB (Y) ( I	)   0641	Panasonic  Philips Polk Audio					

## **Ratings List for Lock**

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 33)

#### **■** U.S. MOVIE RATINGS (MPAA)

NR	NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie which has not been rated or where 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 (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	<ul><li>Viewable</li><li>Blocked</li></ul>	Not Rated.
	TV-Y	<ul><li>Viewable</li><li>Blocked</li></ul>	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
Youth	TV-Y7	<ul><li>FV Blocked</li><li>Viewable</li><li>Blocked</li></ul>	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
	TV-G	<ul><li>Viewable</li><li>Blocked</li></ul>	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	<ul><li>D,L,S,V (all selected)</li><li>Any combination of D, L, S, V</li></ul>	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
Guidance	TV-14	<ul><li>D,L,S,V (all selected)</li><li>Any combination of D, L, S, V</li></ul>	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	<ul><li>L,S,V (all selected)</li><li>Any combination of L, S, V</li></ul>	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

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

#### ■ CANADIAN ENGLISH RATINGS (C. E. L. R.)

Е	Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
С	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 (C. F. L. R.)

_	(- )
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.

#### 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

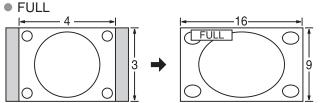
## **Technical Information**

#### **Closed Caption (CC)**

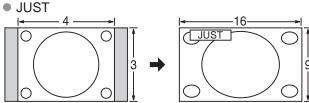
- For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM, or 4:3; characters might be cut off).
- The CC can be displayed on the TV if the receiver (such as a satellite receiver) has the CC set On using the Component or HDMI connection to the TV.
- If the CC is set On both the receiver and TV when the signal is 480i (except for the HDMI connection), the CC may overlap on the TV.
- If a digital program is being output in analog format, the CC data will also be output in analog format.
- If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

#### **Aspect Ratio (FORMAT)**

Press the FORMAT button to cycle through the aspect modes, This lets you choose the aspect depending on the format of the received signal and your preference. (p. 19) (e.g.: in case of 4:3 image)

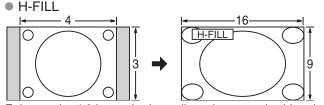


Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

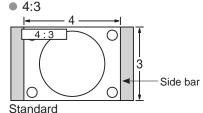


Stretches to justify the 4:3 image to the four corners of the screen.

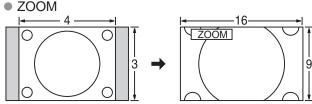
(Recommended for normal TV broadcast)



Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.



(Note that "Image retention" of the side bar may occur from displaying it for a long time.)



Enlarges the 4:3 image to the entire screen. (Recommended for Letter Box)

- Note
- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9): FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p:
   FULL, H-FILL, JUST, 4:3 or ZOOM

Zoom adjust

Vertical image position and size can be adjusted in "ZOOM".

- ① Select "Zoom adjust" on the "Picture" menu. (p. 24-25)
- 2 V-position: Vertical position adjustment
- ③ V-size: Vertical size adjustment













To reset the aspect ratio →



#### **Data format for SD Card browsing**

Photo: Still images recorded with digital still cameras compatible with JPEG files of DCF\* and EXIF\*\*

standarďs

Data format: Baseline JPEG (Sub-sampling: 4:4:4, 4:2:2 or 4:2:0)

Max. number of files: 9,999

Image resolution: 160 x 120 to 10,000,000

\* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard

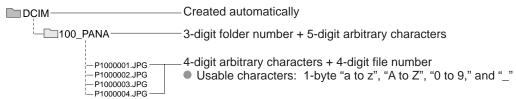
\*\* EXIF (Exchangeable Image File Format)

#### Caution

- A JPEG image modified with a PC may not be displayed.
- Partly degraded files might be displayed at a reduced resolution.

#### Note

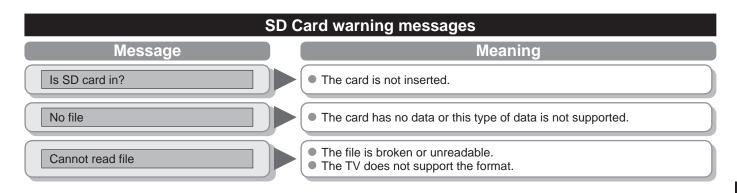
Folder structure viewed in PC



- The folder and file names may be different depending on the digital camera used.
- For the suitable SD Memory Cards, please confirm the latest information on the following website. http://panasonic.co.jp/pavc/global/cs (This site is in English only)

#### **Cautions in handling SD Card:**

- Do not remove the card while the unit is accessing data (this can damage card or unit).
- Do not touch the terminals on the back of the card.
- Do not subject the card to a high pressure or impact.
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the unit. (Panasonic is not liable for any deterioration or damage of recorded data.)



## Technical Information (Continued)

#### VIERA Link "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to interface automatically. (p. 28)

- This function may not work normally depending on the equipment condition.
- The equipment can be operated by other remote controls with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- If you connect the same kind of equipment at once (for example: one DIGA to HDMI 1 / another DIGA to HDMI 2), VIERA Link is available for the terminal with the smaller number.
- If you connect equipment that has "HDAVI Control 2" (or more) function to the TV with HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) for the HDAVI Control compatible equipment.
   This standard is compatible with the conventional HDAVI equipment.

#### **HDMI** connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and the devices.

HDMI-compatible equipment (\*1) with an HDMI or DVI output terminal, such as a DVD player, can be connected to the HDMI connector using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (\*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" menu screen. (p. 24)
   Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(\*1): The HDMI logo is displayed on an HDMI-compliant device. (\*2): Enquire at your local digital equipment retailer shop.

#### Caution

- Use with a PC is not assumed.
- All signals are reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p.
   Match the output setting of the digital device.
- For details of the applicable HDMI signals, see below.

#### Input signals that can be displayed

\* Mark: Applicable input signal for Component (Y, PB, PR) and HDMI

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI
525 (480) / 60i	15.73	59.94	*	*
525 (480) /60p	31.47	59.94	*	*
750 (720) /60p	45.00	59.94	*	*
1,125 (1,080) /60i	33.75	59.94	*	*
1,125 (1,080)/60p	67.43	59.94		*
1,125 (1,080)/60p	67.50	60.00		*
1,125(1,080)/24p	26.97	23.98		*
1,125(1,080)/24p	27.00	24.00		*

#### Note

- Signals other than those shown above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

#### Picture mode

Vivid: Provides enhanced picture contrast and sharpness for viewing in a well-lit room.

Standard: Recommended for normal viewing conditions with subdued room lighting.
 Cinema: For watching movies in a darkened room. It provides a soft, film-like picture.

Game: For playing video game. This mode will be set automatically if "GAME" is selected from Input label setting (p. 37)

Custom (Photo): Customizes each item according to your taste.

Photo is displayed in JPEG menu.

#### Note

- Picture mode will be automatically set to "Standard" if you change the Input label from "GAME" to other labels.
- Picture mode will be automatically set to "Game" if you change from an Input label other than "GAME" to "GAME" label.

#### **DIGITAL AUDIO OUT terminals**

You can enjoy your home theater by connecting a Dolby Digital (5.1 channel) decoder and "Multi Channel" amplifier to the DIGITAL AUDIO OUT terminals.

#### Caution

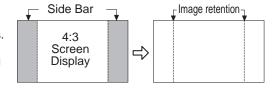
- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- External speakers cannot be connected directly to PROG OUT terminals.
- When an ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When an NTSC channel is selected, the output will be PCM.
  See pages 40-41 for more information.

#### Side Bar

Do not display a picture in 4:3 mode for an extended period, as this can cause "Image retention" to remain on either or both sides of the display field.

To reduce the risk of such "Image retention", change the brightness of the side bars. See pages 26-27 for more information.

 The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (See below).



#### Scrolling bar

Scrolling bar: To prevent "Image retention", scrolls white horizontal bar from top to bottom on a black screen.

- Press any key except the POWER key to return to previous screen.
- You will return to the previous screen if any key operation has not been performed for 15 minutes.
   See pages 26-27 for more information.



# Care and Cleaning

First, unplug the Power cord plug from the wall outlet.

#### Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, soak a soft, lint-free cloth in diluted mild liquid dish soap (1 part mild liquid dish soap diluted by 100 times the amount of water) and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the surface may be adversely affected.

#### **Cabinet**

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in a weak mild liquid dish soap solution and then wring the cloth dry. Use this cloth to wipe the cabinet and then wipe it dry with a dry cloth.
- Do not allow any mild liquid dish soap to come into direct contact with the surface of the Plasma TV.
   If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents, and thinner; otherwise, the quality of the cabinet surface
  may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made
  from rubber or PVC.

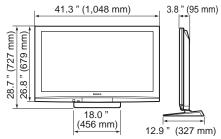
#### **Pedestal**

- Cleaning
  - Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of mild liquid dish soap has been added and then wipe with a dry cloth. Do not use products such as solvents, thinner, or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products, or the like. (Doing so will cause deterioration.)

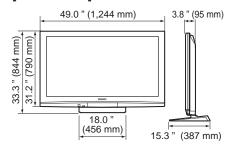
# **Specifications**

			TH-42PZ80Q		TH-50PZ80Q		
	er Source	AC 120 V, 60 Hz					
Power Consumption	Maximum	583 W			700 W		
mption	Standby condition	0.2 W (With Cabl	eCARD : 30.0 W)		0.2 W (With CableCARD : 34.0 W)		
	Drive method	AC type					
Aspect Ratio		16:9					
Plasma Display	Visible screen size		nches measured diag	onally)	50 " class (49.9 inches measured diagonally)		
חמחפו	(W × H × Diagonal)	36.2 " × 20.4 " × (922 mm × 518 m	m × 1,057 mm)		43.5 " x 24.4 " x 49.9 " (1,106 mm x 622 mm x 1,269 mm)		
<u>D</u>	(No. of pixels)	2,073,600 (1,920 [5,760 × 1,080 do	(W) × 1,080 (H)) ots]				
Sound	Audio Output	20 W [ 10 W + 10	20 W [ 10 W + 10 W ] ( 10 % THD )				
	nnel Capability ital/Analog)	VHF/ UHF: 2 - 6	9, CATV: 1 - 135				
Operating Conditions		Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)					
0	VIDEO IN 1-2	VIDEO: S-VIDEO: AUDIO L-R:	RCA PIN Type × 1 Mini DIN 4-pin RCA PIN Type × 2	Y: 1.0 V 0.5 V [rm	[p-p] (75 Ω)          C:  0.286 V [p-p] (75 Ω) s]		
<b>Connection Terminals</b>	COMPONENT INPUT 1-2	Y: PB, PR: AUDIO L-R:					
ion T	HDMI 1-3		TYPE A Connector × 3  This TV supports "HDAVI Control 3" function.				
arm	IEEE1394		lard, 4pin , S400 ,MP				
Σ̈́	Card slot		1, CableCARD slot x	1			
S	AV PROG OUT	VIDEO: AUDIO L-R:	RCA PIN Type x 1 RCA PIN Type x 2	1.0 V [p-p 0.5 V [rm			
	DIGITAL AUDIO OUT	PCM / Dolby Dig					
FEA	TURES	3D Y/C FILTER V-Chip Photo viewer	CLOSED CAPTION CableCARD slot HDAVI Control 3	tru2way-ı	readv TV		
Dimensions (W×H×D)	Including pedestal	41.3 " × 28.7 " × (1,048 mm × 727	12.9 "	,	49.0 " × 33.3 " × 15.3 " (1,244 mm ×844 mm × 387 mm)		
sions 1 × D)	TV Set only	41.3 " × 26.8 " × 3 (1,048 mm × 679			49.0 " × 31.2 " × 3.8 " (1,244 mm × 790 mm × 95 mm)		
Ma	Including pedestal	70.6 lb. (32 kg)		·	90.4 lb. (41 kg)		
Including pedestal   70.6 lb. (32 kg)   TV Set only   66.1 lb. (30 kg)			86.0 lb. (39 kg)		86.0 lb. (39 kg)		





#### [TH-50PZ80Q]



#### Note

• Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

## **FAQ**

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer or Panasonic Service Center for assistance. For details (p. 55)

For additional assistance, please contact us via the website at: www.panasonic.com/contactinfo

# White spots or shadow images (noise)





 Check the position, direction, and connection of the antenna.

# Interference or frozen digital channels (intermittent sound)



- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 35).
   If the signal is weak, check the antenna and consult your local dealer.





# Pictures from external equipment are distorted when the unit is connected via HDMI

- Is the HDMI cable connected properly? (p. 40, 41)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 48)
- Use equipment compliant with EIA/CEA-861/861B.

# Recording does not start immediately

 Check the settings of the recorder. For details, read the manual of the recorder.

## The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Are the batteries new?
- Select the correct remote control mode (p. 13, 22)

#### **Problem**

#### The function to prevent "Image retention" is activated. (Not a faulty symptom)

"Press any key to return" moves on the screen

 The screen saver is activated if the TV unit is not operated for a certain time in SD mode.

**Actions** 

• "Image retention" (p. 5)

## Some spots remain bright or dark

• The Plasma panel is made up of a few million pixels and is produced with advanced technology through an intricate process. However, sometimes a few pixels may be bright or dark. These pixels do not indicate a defective panel and will have no impact on the performance of the TV.

### Chaotic image, noisy

 Check nearby electrical products (car, motorcycle, fluorescent lamp).

## No image can be

displayed

Check Picture menu (p. 24)

be

Check the cable connections. (p. 9-12)
Check that the correct input has been selected. (p. 22)

## Only spots are displayed instead of images

Check the channel settings. (p. 34)

Check the antenna cables.

# Neither image nor sound is produced

- Is the AC power cord plugged into the outlet?
- Is the TV unit turned On?
- Check Picture menu (p. 24) and volume.
- Check the AV cable connections. (p. 9-12)
- Check that the correct input has been selected. (p. 22)

#### Black Box appears

Change settings of Closed Caption (CC). (p. 36)

#### No sound is produced

- Are the speakers' cables connected correctly? (p. 40)
- Is "Sound Mute" active? (p. 13)
- Is the volume set to the minimum?
- Is "Speaker output" set to "Off"? (p. 24)
- Change "SAP" settings. (p. 18)
- Check "HDMI 1 in", "HDMI 2 in" or "HDMI 3 in" settings. (p. 24)

#### Sound is unusual

- Set "SAP" setting to "Stereo" or "Mono."
- Check the HDMI device connected to the unit.
- Set the audio setting of the HDMI device to "Linear PCM."
- If digital sound connection has a problem, select analog sound connection.

#### Unknown sound heard

- 1- Sounds from TV cabinet
- 2- Whirring sound
- 3- Tick/Click sound
- 4- Buzzing sound

- 1- Changes in the temperature and humidity of the room may cause the TV's cabinet to expand or contract and produce metallic sounds. This is not a sign of faulty operation or a malfunction.
- 2- The TV may have a cooling fan that makes a soft whir. This is not a sign of faulty operation or a malfunction.
- 3- When the TV is powered on, an electrical component in the TV activates producing a tick/click sound. This is not a sign of faulty operation or a malfunction.
- 4- Electrical circuits are active while the TV set is on. This is not a sign of faulty operation or a malfunction.

Parts of the TV set become hot.

 Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises will not pose any problems in terms of performance or quality.

Screen

Frequently Asked Questions

-AQs, etc

I V set

Sound

## Limited Warranty (for U.S.A. and Puerto Rico only)

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

#### Panasonic Color Television Limited Warranty

#### **Limited Warranty Coverage**

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

CATEGORIES	ALL PARTS EXCEPT GLASS PANEL OR CRT	LABOR	GLASS PANEL OR CRT	GLASS PANEL OR CRT LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	GLASS PANEL - 2 (TWO) YEARS	1 (ONE) YEAR	ON-SITE OR CARRY-IN

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts.

You must carry-in your product or arrange for on-site service during the Limited Warranty period. If non-rechargeable batteries are included, they are not warranted. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

#### **On-Site or Carry-in Service**

For On-Site or Carry-In Service in the United States and Puerto Rico call 1-877-95-VIERA (1-877-958-4372).

On-site service where applicable 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 on-site repairs will not be completed on-site, but will require that the product or parts of the product, at the servicer's discretion be removed for shop diagnosis and/or repair and then returned.

#### **Limited Warranty Limits And Exclusions**

This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The Limited 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, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Service Center or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE LIMITED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Service Center. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN ON-SITE SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

## Customer Services Directory (for U.S.A. and Puerto Rico)

#### **Customer Services Directory (United Stated and Puerto Rico)**

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

#### http://www.panasonic.com/help

or, contact us via the web at:

#### http://www.panasonic.com/contactinfo

You may also contact us directly at:

1-877-95-VIERA (958-4372)

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

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

#### **Accessory Purchases (United Stated and Puerto Rico)**

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

#### http://www.pstc.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 Service and Technology 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

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

Panasonic Consumer Electronics Company, Division of Panasonic Corporation of North America One Panasonic Way, Secaucus New Jersey 07094 U.S.A.