Panasonic®

Operating Instructions
42"/50" Class 720p Plasma HDTV
(41.6/49.9 inches measured diagonally)

VIErA
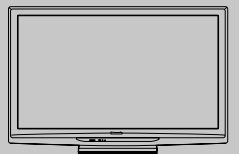
For assistance (Canada), please call:
1-866-330-0014
or visit us at www.vieraconcierge.ca

Quick Start Guide

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

Model Number _____   Serial Number _____

HDMI   **HDTV**   **VIErA Link™**   **SDHC™**   **SDHC VIErA IMAGE VIEWER™**
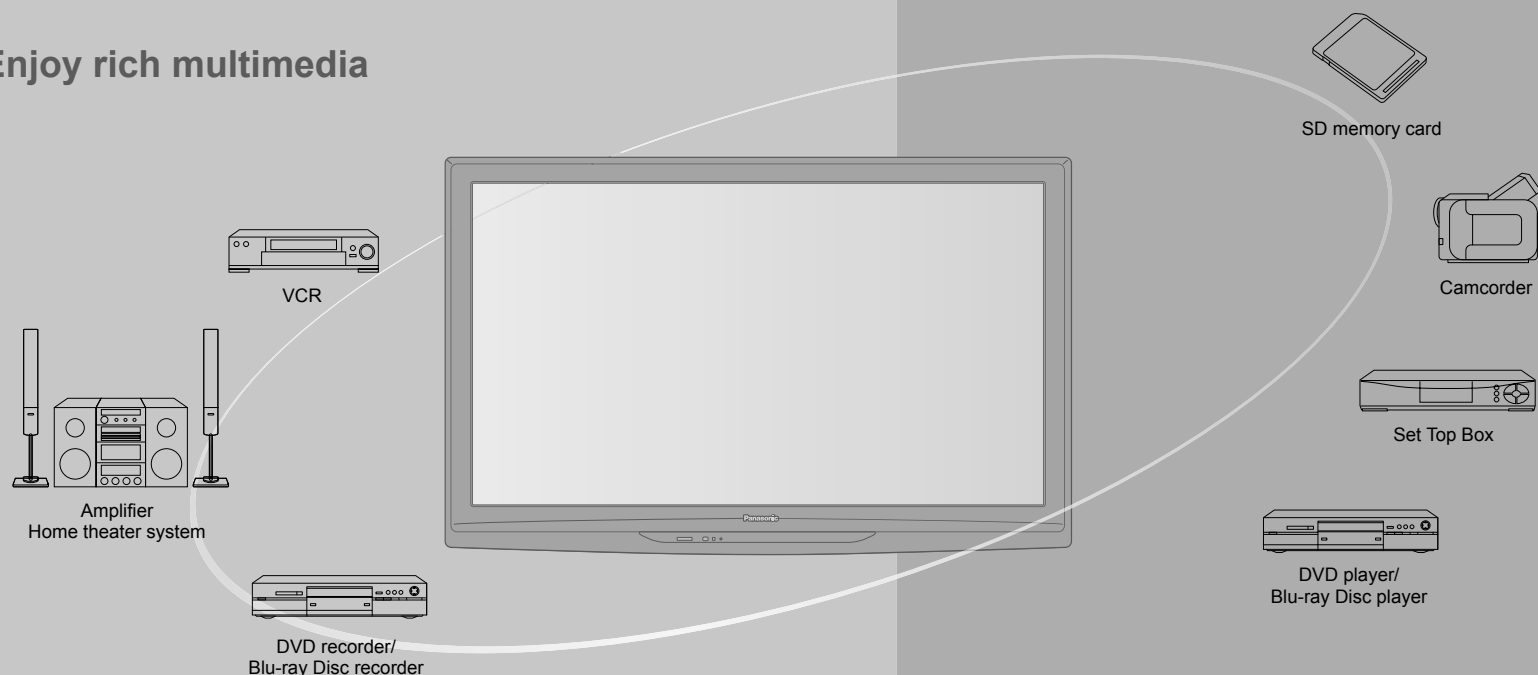
Printed in U.S.A.
M0110-0

English

Thank you for purchasing this Panasonic product.
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.

TQB2AA0584

Experience an amazing level of multimedia excitement

Enjoy rich multimedia

SD memory card

Camcorder

VCR

Set Top Box

Amplifier
Home theater system

DVD player/
Blu-ray Disc player

DVD recorder/
Blu-ray Disc recorder

Contents

Quick Start Guide

Viewing

Advanced

FAQs, etc.

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This product qualifies for ENERGY STAR in the "Home Use" setting and this is the setting in which energy savings will be achieved. Any modifications to the "Home Use" setting or other factory default settings could result in greater energy consumption beyond levels that meet ENERGY STAR qualifications.

ENERGY STAR

CEA
Consumer Electronics Association
www.CE.org/safety

Safety Precautions

```
⚡          CAUTION                ⚡
         RISK OF ELECTRIC SHOCK
            DO NOT OPEN
!                                 !
```

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

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

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.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments / accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15) To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

WARNING/CAUTION

⚠ WARNING

Small parts can present choking hazard if accidentally swallowed.
Keep small parts away from young children.
Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

■ Set up
This Plasma TV may fall and can cause personal injury or even death if not installed correctly. To prevent personal injury or death, follow these warnings:

● **Install the Plasma TV in accordance with the manufacturer's recommended pedestal or stand, corresponding hardware and installation instructions.**
This Plasma TV is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability. The following accessories are manufactured by Panasonic Corporation.
  • Wall-hanging bracket (Angled)
    TY-WK4P1RW

● **Be sure to ask a qualified technician to carry out the installation and set-up.**
Two or more people are required to install or remove the television.

● **Some wall mounts (wall-hanging brackets) are not designed to be mounted to walls with steel studs or old cinder block constructions.**
Ask your dealer or licensed contractor to properly secure the wall-hanging bracket.

● **Do not route the TV's power cord inside the wall.**
The power cord was not designed for in-wall mounting. Doing so can lead to fire hazard.

● **Do not place the Plasma TV or its stand on a sloped or unstable surface.**
The Plasma TV may fall or tip over.

● **Do not support the Plasma TV on a non-specified pedestal.**

● **Do not place the Plasma TV on furniture that can easily be used as steps, such as a chest of drawers.**

● **Do not climb or allow children to climb on the Plasma TV**

● **Place or install the Plasma TV where it cannot be pushed, pulled over or knocked down.**

● **Route all cords and cables such that they cannot be tripped over or pulled by curious children.**

● **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. In the unlikely event that you receive a shock from this product it is possible that your household outlet may be wired improperly. Have an electrician verify that the TV's outlet is properly wired. If the symptom persists, have the TV serviced by a qualified authorized technician.

■ AC Power Supply Cord
To prevent fire or electric shock:
● **The Plasma TV is designed to operate on a 120 V AC, 60 Hz service. Insert the power cord plug as far as it will go into the wall socket.**
If the plug is not fully inserted, heat may generate, which could cause a fire.
● **The included power cord is for use with this unit only.**
● **Do not use any power cord other than that provided with this TV.**
● **Do not handle the power cord plug with wet hands.**
● **Do not do anything that might damage the power supply cord.**
● **When disconnecting the power supply cord, hold the plug, not the cord.**
● **Do not use the power supply cord if the plug or cord is damaged.**
Replace the cord or contact your Authorized Service Center.
● **Do not use a 3-prong to 2-prong AC plug adaptors to connect your TV's plug to the wall outlet.**
Doing so will defeat the TV plug's safety feature, which can lead to a shock hazard. If the wall outlet does not accommodate a 3-prong plug, have a qualified electrician replace your outlet and check the associated wiring.

■ Handling the power supply cord
● **Insert the power plug fully into the socket outlet. (If the power plug is loose, it could generate heat and cause fire.)**
● **Ensure that the power plug is easily accessible.**
● **Ensure the earth pin on the power plug is securely connected to prevent electrical shock.**
  • An apparatus with CLASS I construction shall be connected to a power socket outlet with a protective earthing connection.
● **Do not touch the power plug with a wet hand. (This may cause electrical shock.)**
● **Do not use any power cord other than that provided with this TV. (This may cause fire or electrical shock.)**
● **Do not damage the power cord. (A damaged cord may cause fire or electrical shock.)**
  • Do not move the TV with the cord plugged in the socket outlet.
  • Do not place a heavy object on the cord or place the cord near a high-temperature object.
  • Do not twist the cord, bend it excessively, or stretch it.
  • Do not pull on the cord. Hold onto the power plug body when disconnecting cord.
  • Do not use a damaged power plug or socket outlet.
● **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 supply cord immediately.**
Continued use of the TV under these conditions might cause a fire or permanent damage to the TV. Have the TV evaluated by an Authorized Service Center. Servicing of the TV by unauthorized personnel is strongly discouraged due to its high voltage.

● **If water or an object gets inside the Plasma TV, if the Plasma TV is dropped, or if the enclosure becomes damaged, unplug the power supply cord immediately.**
A short-circuit may occur, which could cause a fire. Contact an Authorized Service Center for an evaluation.

⚠ CAUTION

● **Do not cover the ventilation holes.**
Doing so may cause the Plasma TV to overheat, which can cause a 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 pedestal or stand surface clear from objects that may obstruct ventilation.**

■ When Moving 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.
● **To prevent an electric shock, disconnect the power plug from the wall outlet as a safety precaution before carrying out any cleaning.**
● **Transport only in upright position.**
Transporting the unit with its display panel facing upward or downward may cause damage to the internal circuitry.
● **Using a dry cloth, clean any dust from the power supply cord and plug regularly.**
Build-up of dust on the power cord plug can increase humidity, which might damage the insulation and cause a fire.
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 reflected light from your Plasma TV.
The TV will still consume some power as long as the power supply cord is connected to the wall outlet.

● **Display panel is made of glass. Do not apply strong force or impact to the display panel.**
This may cause damage resulting in injury.
● **The TV is heavy. TV should be handled by 2 or more people. Support as shown to avoid injury by the TV tipping or falling.**
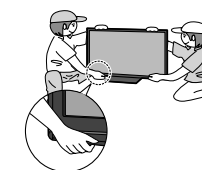
Safety Precautions (Continued)

![CEA logo] www.CE.org/safety

⚠ WARNING

CEA CHILD SAFETY NOTICES: Flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations. Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and may cause personal injury or even death.

The consumer electronics industry (of which Panasonic is a member) is committed to making home entertainment enjoyable and safe. To prevent personal injury or death, be sure to follow the following safety guidelines:

TUNE INTO SAFETY:
- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on "larger than life" flat panel displays. Care should be taken to install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:
- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.

**Panasonic recommends that a qualified installer perform the wall-mount installation. **

> **The American Academy of Pediatrics discourages television viewing for children younger than two years of age.**

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http://www.am-linux.jp/dl/DTV10UT/.

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For at least three (3) years from delivery of products, Panasonic will give to anyone who contacts us at the address provided below, for a charge of no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL v2/LGPL.
Contact Information
cdrequest@am-linux.jp
Source code is also freely available to you and any other member of the public via our website below.
http://www.am-linux.jp/dl/DTV10UT/

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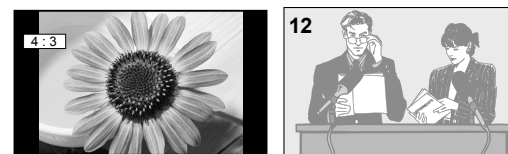
To prevent the "Image retention", the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed.

Typical still images
- Channel number and other logos
- Image displayed in 4:3 mode
- SD Card photo • Video game • Computer image

■ 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
- N2QAYB000485

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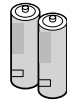
☐ AC cord

☐ Pedestal
- TBLX0134 (TC-P42X2)
- TBLX0135 (TC-P50X2)
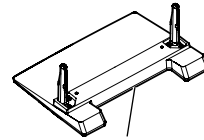
How to assemble (p. 9)

☐ Operating Instructions

☐ VIERA Concierge and Quick start guide

Optional Accessory

Wall-hanging bracket
(angle)
- TY-WK4P1RW
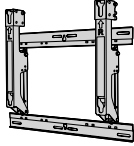
a: 15.7" (400 mm)
b: 11.8" (300 mm)

Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

Rear of the TV

Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)
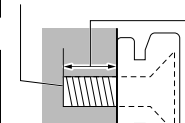
Depth of screw: minimum 0.59" (15.0 mm), maximum 1.18" (30.0 mm)

M8

(View from the side)

Holes for wall-hanging bracket installation

> **Warning**
> - In order to maintain the TV's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.
> - Carefully read the instructions accompanying optional accessories, and be absolutely sure to take steps to prevent the TV from tipping over.
> - Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.
> - Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
> - When using the angled-type wall hanging bracket, please ensure that there is sufficient space for the connecting cables not to press against the wall when the TV is tilted forward.
> - For safety reasons, remove units no longer being used from their wall-mounted locations.

Installing the remote's batteries

1 Open / Hook

2 Close
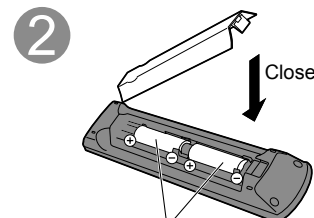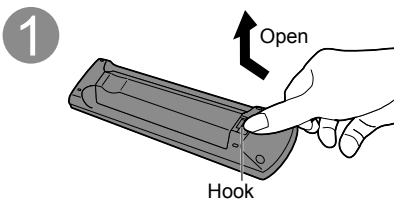
> **Caution**
> - Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
>   - Do not mix old and new batteries.
>   - Do not mix different battery types (such as alkaline and manganese batteries).
>   - Do not use rechargeable (Ni-Cd) batteries.
> - Note the correct polarity (+ or -).
> - Do not burn or break batteries.

8

Attaching the pedestal to TV

■Assembling the pedestal

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

Pole Ⓡ

Ⓐ

Ⓛ Pole

Front

Base
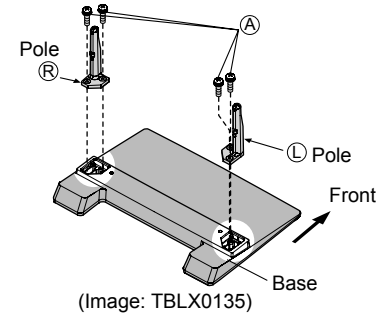
(Image: TBLX0135)

■Set-up

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

Ⓑ

Arrow mark

Pole

Pole

Bottom view

Rear side

Hole for pedestal installation

Pole

Base

- Fix securely with assembly screws Ⓑ. (Total 4 screws)

(Image: TC-P50X2)

Accessories

Assembly screws (4 of each)

Ⓐ XYN5+F18FN
M5 × 18 (Silver)

Ⓑ THEL078N (for 42")
THEL080N (for 50")
M5 × 30 (Black)

Poles (2)

Ⓛ   Ⓡ
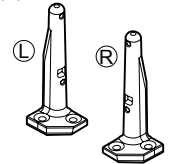
- Ⓛ or Ⓡ is printed at the bottom of the poles.

Base (1)

> **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.

9

Accessories/Optional Accessory (Continued)

AC cord connection

To attach

①

Insert it firmly until the tabs on both sides click into place.

To remove

② ①

① ②

Keep pushing both sides until they snap and pull.
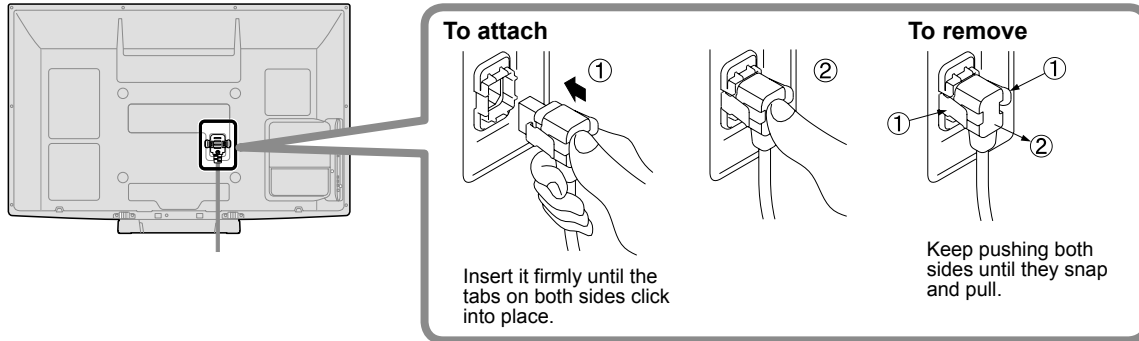
Reference of connection

Antenna terminal

①

②
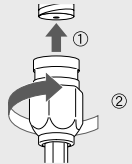
● Firmly tighten by hand.

Pin terminals

red   blue green

green
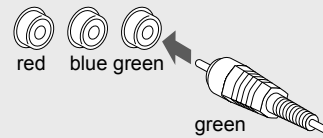
● Match colors of plugs and terminals.
● Insert firmly.

HDMI terminal
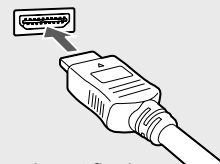
● Insert firmly.

Basic Connection

TV

VHF/UHF Antenna

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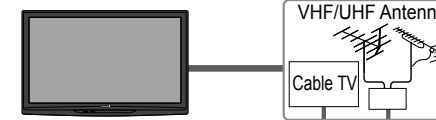
VHF/UHF Antenna
● NTSC (National Television System Committee): Conventional broadcasting
● ATSC (Advanced Television Systems Committee): Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multi-channel surround-sound audio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

To connect the antenna terminal

VHF/UHF Antenna

Cable TV   or

Back of the TV

AC 120 V
60 Hz

AC Cord
(Connect after all the other connections have been made.)

* See page 10 (AC cord connection)

AV IN

HDMI 2

ANTENNA
Cable In
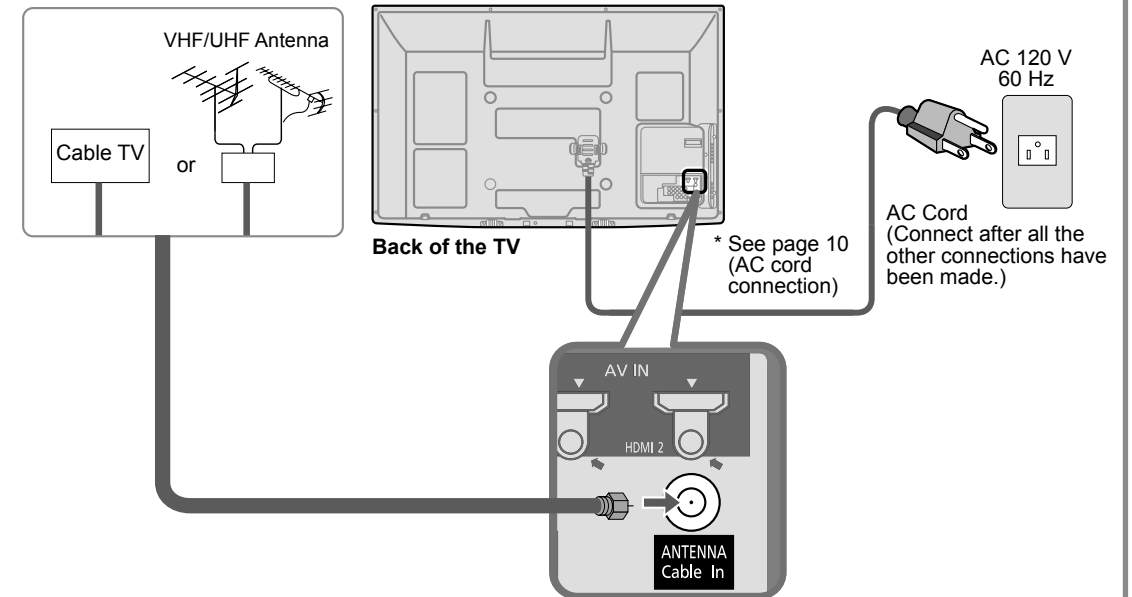
Cable
● You need to subscribe to a cable TV service to enjoy viewing their programming.
● You can enjoy high-definition programming by subscribing to a high-definition cable Service. The connection for high-definition can be done with the use of an HDMI or Component Video cable. (p. 12)
● To view high-definition programming select the correct video input. (p. 24)

Note

● Not all cables and external equipment shown in this book are supplied with the TV.
● For more details on 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.ca

Basic Connection (Continued)

AV cable connections

Ⓐ To use HDMI terminals

AV IN

HDMI 1 (ARC)   HDMI 2

AV Equipment
HDMI AV OUT
e.g. Blu-ray Disc player
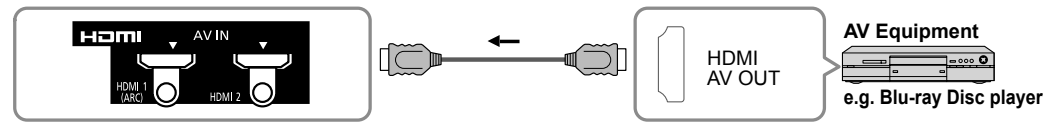
● Connecting to HDMI terminals will enable you to enjoy high-definition digital images and high-quality sound.
● The HDMI connection is required for a 1080p signal.
● For "VIERA Link™ connections", please refer to p. 29.

Ⓑ To use COMPONENT terminals

red
green — green | green
blue | blue — blue
green — red | red
white — white | white
red — red | red

Y
P_B
P_R
COMPONENT VIDEO OUT

L
R
AUDIO OUT

AV Equipment
e.g. Blu-ray Disc player

AUDIO
COMPONENT IN 1 2
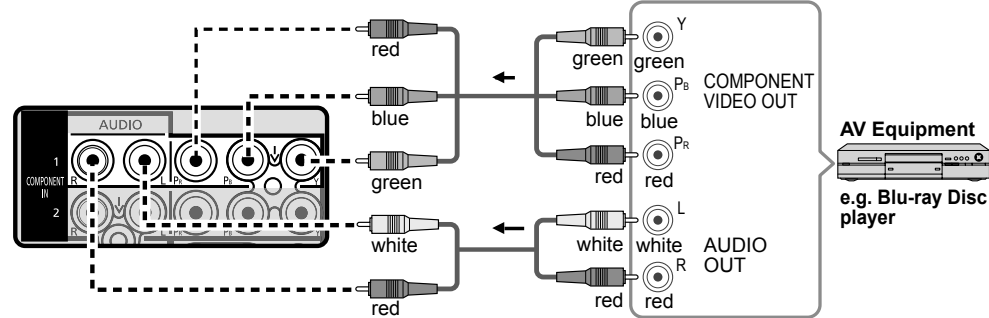
Ⓒ To use COMPOSITE terminals

yellow — yellow | yellow
white — white | white
red — red | red

L
R
COMPOSITE OUT

AV Equipment
e.g. DVD Recorder
or
e.g. VCR

AUDIO VIDEO
VIDEO IN 1
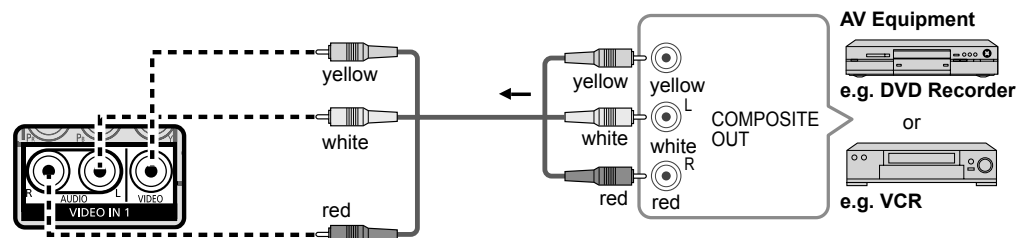
Note
● For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

12

Identifying Controls

TV controls/indicators

Front of the TV

POWER button

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

Power indicator (on: red, off: no light)

C.A.T.S. sensor
Plasma C.A.T.S. (Contrast Automatic Tracking System) (p. 26)

Selects channels in sequence
Volume up/down
Displays the Main Menu

Back of the TV

SD card slot

SD CARD
VIDEO IN2
VIDEO
R AUDIO L

Changes the input mode
Chooses Menu and Submenu entries

Video Input 2 connector

Note
● The TV consumes a small amount of electric energy even when turned off.
● Do not place any objects between the TV remote control sensor and remote control.

Remote control

Switches TV On or Off (Standby)
Changes the input mode (p. 24)
Displays Main Menu (p. 25)
Displays Sub Menu (p. 18, 27)
Colored buttons (used for various functions) (for example, p. 16, 23, 33)
Volume up/down
Sound Mute On/Off
Changes aspect ratio (p. 18, 43)
Switches to previously viewed channel or input modes
External equipment operations (p. 33)

Closed caption On/Off (p. 18)
Selects Audio Mode for TV viewing (p. 18)
Exits from Menu screen
VIERA Link menu (p. 32-33)
Display VIERA TOOLS (p. 20)
Viewing from SD Card (p. 22-23)
Selects/OK/Change
Returns to previous menu
Channel up/down
Displays or removes the channel banner (p. 18)
Operates the Favorite channel list function (p. 18-19)
Numeric keypad to select any channel (p. 17) or press to enter alphanumeric input in menus (p. 16, 24, 32, 34, 36, 39, 40)
Use for digital channels (p. 17)

Panasonic
TV

13

First Time Setup

First time setup screen 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. 27) is set to "No".

1 **Turn the TV On with the POWER button**
(TV)   (Remote)
POWER

or
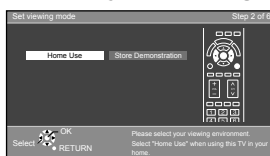
2 **Configure your viewing mode**

① **Select your language**

Language / Idioma / Langue

English   Español   Français
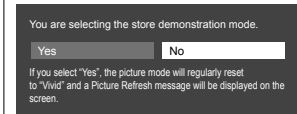
①select
②OK

② **Select your viewing mode** (Be sure to select "Home Use")

Set viewing mode   Step 2 of 6

Home Use   Store Demonstration

Select   OK
RETURN   Please select your viewing environment.
Select "Home Use" when using this TV in your home.

①select
②OK

● Please confirm your selection (Home Use) before pressing the OK button.

■ **If you select "Store Demonstration" by mistake in ②, confirmation screen will be displayed.**

You are selecting the store demonstration mode.

Yes   No

If you select "Yes", the picture mode will regularly reset to "Vivid" and a Picture Refresh message will be displayed on the screen.
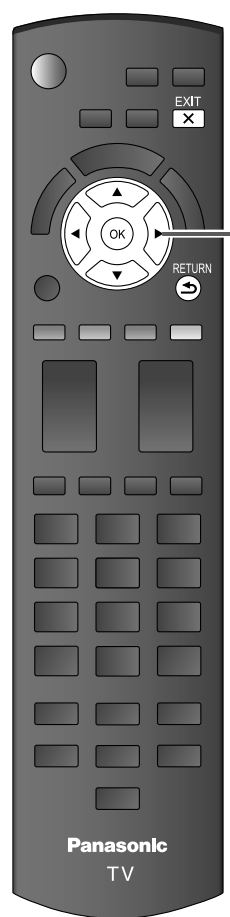
①select
②OK

● Select "No" and return to previous screen ②.
● If you select "Yes", the screen enters the Store Demonstration mode.

To display the "Set viewing mode" screen again as shown above and select "Home Use", do one of the following:
• Press and hold down the front POWER button for at least five seconds.
• Unplug power cord for 30 seconds and plug it again.
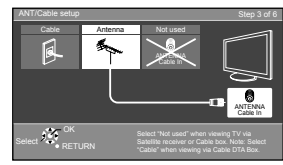
Note

● RETURN ⮌ is not available on ② - ①.

● EXIT ✕ is not available on ②.

● When you have used ② to turn the TV off, the next time you turn the TV on the "Language" settings will be displayed.

● If you use any other step other than ② to turn the TV off, or if you used the EXIT button to quit before completing the settings, the next time you turn the TV on "First time setup" will not be automatically displayed.
• The settings up to that point are saved.
• You can reset the settings using "First time setup". (p. 27)

● To change the setting (Language, ANT/Cable setup, Input labels, Clock) later, go to the Menu screen (p. 27)

3 **Auto channel setup (ANT/Cable setup)**
① **Select the connected Antenna in terminal**

ANT/Cable setup   Step 3 of 6

Cable   Antenna   Not used

Select   OK
RETURN   Select "Not used" when viewing TV via Satellite receiver or Cable box. Note: Select "Cable" when viewing via Cable DTA Box.
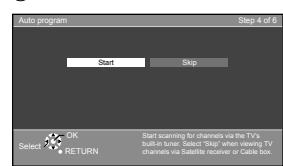
Not used: Go to **4**
(Label inputs)

①select
②OK

Select "Not used" when no wire is connected to the "Antenna/Cable" terminal.
● Typical when a Cable/Satellite box is connected to a TV input.
● Prevents accidental tuning to an unavailable signal.

② **Select "Start"**

Auto program   Step 4 of 6

Start   Skip

Select   OK
RETURN   Start scanning for channels via the TV's built-in tuner. Select "Skip" when viewing TV channels via Satellite receiver or Cable box.
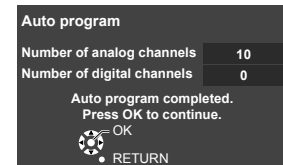
Skip: Go to **4**
(Label inputs)

①select
②OK

Start scanning the channels
(Available channels are automatically set.)

Auto program	
Progress	8%
Number of analog channels	10
Number of digital channels	0

Press RETURN to quit

RETURN

③ **Complete the Auto program setup**
Completion message is displayed when the Auto program scan is successfully completed.

Auto program	
Number of analog channels	10
Number of digital channels	0

Auto program completed.
Press OK to continue.
OK
RETURN

OK

If there is no available channel, return to **3** - ① (ANT/ Cable setup). "Not used" will be selected.

■ **Press to return to the previous screen**
RETURN ⮌

■ **Operation of the EXIT button during "First time setup"**
Press the button once to display confirmation screen. Press again to close confirmation screen.

[EXIT confirmation screen]

Are you sure you want to exit the First Time Setup?

Yes   No

To repeat the First Time Setup, select "First time setup" in the Setup Menu.
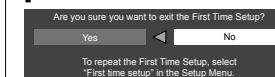
Yes ➡ Exit "First time setup"
No ➡ Return to the original screen

First Time Setup (Continued)
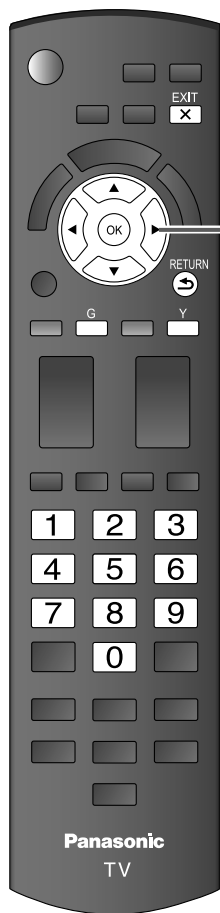
④

Select the Input labels (Label inputs)
Select NEXT then press OK to go to the next step.

① select
or
② set
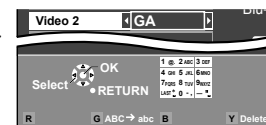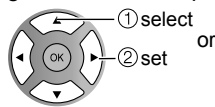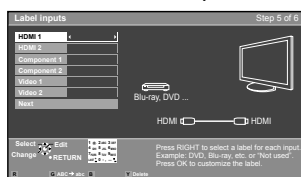
Follow the instructions on screen to complete the following operations.

Label: [BLANK] Not used/Blu-ray/DVD/DVD REC/HOME THTR/GAME/COMPUTER/VCR/CABLE/SATELLITE/DVR/CAMERA/MONITOR/AUX/RECEIVER/MEDIA CTR/MEDIA EXT/OTHER

⑤

Adjust the Clock (Set clock)
Select NEXT then press OK to go to the next step.

① select
or
② set
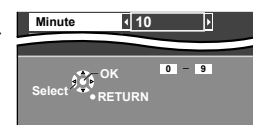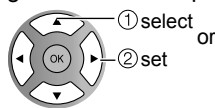
Follow the instructions on screen to complete the following operations.

⑥

Complete the First time setup
Completion message is displayed when you have successfully completed the First time setup.

Setup is complete. Enjoy your
Panasonic VIERA TV.

OK
RETURN   Press OK to exit.
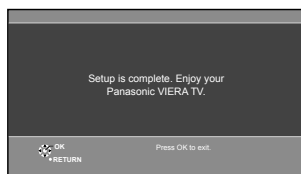
Note

● 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

Basic connection (p. 11-12)

To watch TV and other functions

①

Turn power on
(Remote)   (TV)

POWER

or
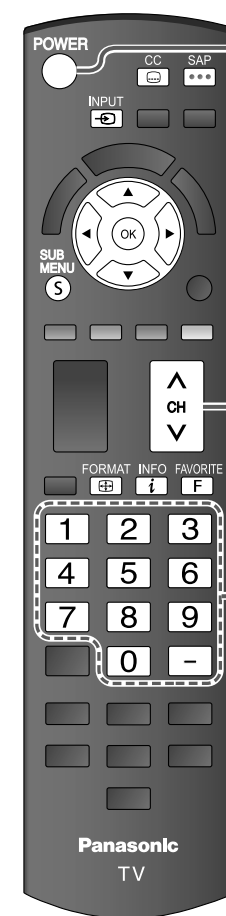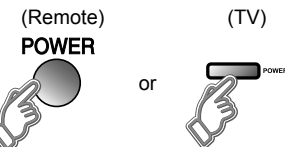
Note
● If the mode is not TV, press [INPUT] and select TV. (p. 24)

②

Select a channel number
(Remote)

up
CH
or
down

(TV)

CH
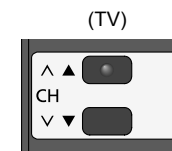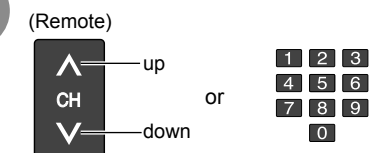
■ To directly enter the digital channel number

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]

Note

● Reselect "Cable" or "Antenna" in "ANT in" of "ANT/Cable setup" to switch the signal reception between cable TV and the antenna. (p. 15, 37)
● The channel number and volume level remain the same even after the TV is turned off.

Watching TV (Continued)

■ **Other Useful Functions** (Operate after ❷ (p. 17))

Listen with SAP (Secondary Audio Program)	■ **Select the Audio mode for watching TV** SAP ● **Digital mode** Press SAP to select next Audio track (if available) when receiving a digital channel. **Audio track 1 of 2** **(English)** ● **Analog mode** Press SAP to select the desired Audio mode. • Each press of SAP will change the Audio mode. (Stereo/SAP/Mono)
Closed caption	■ **Switches the Closed caption mode On or Off** CC Closed caption Off ⟹ Closed caption On ⟹ Closed caption On mute
Display the SUB MENU	■ **Press SUB MENU to show the Sub Menu screen** (p. 27) This menu consists of shortcuts to convenient functions. SUB MENU **Setup SUB MENU** **Channel surf mode** ◄ **All** ► **Set favorite** **Edit CH caption** **Signal meter**
Information recall	■ **Displays or removes the channel banner** INFO Channel — Clock **15-2 ABC-HD** THE NEWS · 12:30 PM CC SAP TV-G 1080i Standard 4:3 · ⏱ 30 Station identifier · SAP indication · Signal resolution · Picture mode · Sleep timer remaining time Closed caption · Rating level · Aspect ratio
Change aspect ratio	■ **Press FORMAT to cycle through the aspect modes** (p. 43) FORMAT 4 4 : 3 3 • 480i, 480p: FULL/JUST/4:3/ZOOM • 1080p, 1080i, 720p: FULL/H-FILL/JUST/4:3/ZOOM
Call up a favorite channel	FAVORITE F ■ **FAVORITE** Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use number buttons. (p. 19)

Favorite Feature

■ **Set the Favorite Feature**

1 Display the SUB MENU.

SUB MENU
S

2 Select "Set favorite"

Setup SUB MENU
Channel surf mode
All
Set favorite
Edit CH caption
Signal meter

①select
②OK

3 Set the displayed channel

Set favorite 1/3
1 **26-1**
2
3
4

①select the list number
②save the displayed channel

or

1 2 3
4 5 6
7 8 9
0

select the list number (to save the channel without pressing OK)
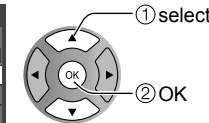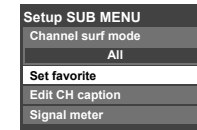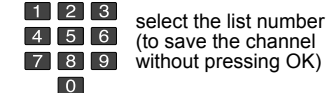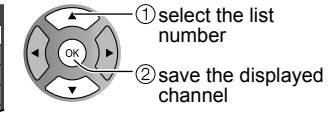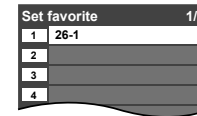
Delete a favorite channel

Set favorite 1/3
1 **26-1**
2
3
4

①select
②delete (while holding down)
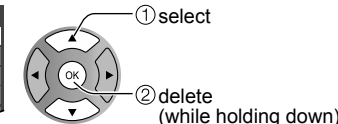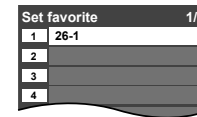
■ **Use the Favorite Feature**

1 Display "Favorite channels"

FAVORITE
F

2 Select the channel

Favorite channels 1/3
1 **26-1**
2
3
4

select
or
1 2 3
4 5 6
7 8 9
0

3 Set a Favorite channel

Favorite channels 1/3
1 **26-1**
2
3
4

OK
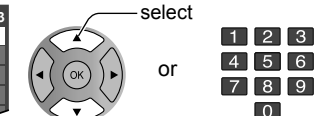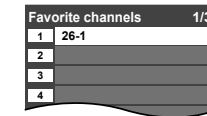
■ **To change the page**

FAVORITE
F
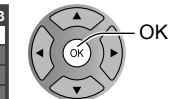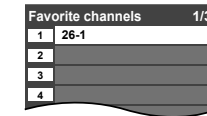
Press repeatedly to change between pages(1/3, 2/3, 3/3 or exit)
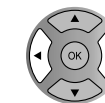
Changes the page forward/backward

Using VIERA TOOLS

VIERA TOOLS is the easy way to access frequently-used menu items. They are displayed as shortcut icons on the TV screen.
Unlike a conventional menu, you can enjoy using, playing or setting a function quickly.

1 **Display VIERA TOOLS**

VIERA TOOLS

2 **Select the item**

①select
②next

3 **Set each item**

- VIERA Link

  VIERA Link → VIERA Link (p. 32-33)

- Slideshow

  Slideshow → Slideshow (p. 22-23)

- Photo viewer

  Photo viewer → Photo viewer (p. 22-23)

- Game mode

  Game Mode → Game mode setting (Game/Standard)

  Please select Picture mode.
  Game mode allows optimum picture settings for gaming.
  Game   Standard

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

■ **Press to return to the previous screen**
RETURN

VIERA Link™ Setting

If you connect equipment that has the "HDAVI Control" function to the TV using an HDMI cable, you will find it easier to use. Please refer to p. 28-33. Before using these functions, you need to set "VIERA Link" setting to "On" as shown below.

1 **Display the menu**

MENU

2 **Select "Setup"**

Menu	Setup	2/2
	VIERA Link settings	
	ECO / energy saving	
	Advanced setup	
	First time setup	
	About	
	Reset to defaults	

Adjusts Surf mode, Language, Clock, Channels, Inputs, and other settings.

①select
②next

3 **Select "VIERA Link settings"**

Menu	Setup	2/2
	VIERA Link settings	
	ECO / energy saving	
	Advanced setup	
	setup	

①select
②next

4 **Select "VIERA Link"**

Menu	VIERA Link settings	
	VIERA Link	On
	Power on link	No
	Power off link	Yes
	Energy saving mode	
	Quick start	
	Unselected device energy save	
	No (stay on)	
	Default speakers	TV

Enables or disables interoperability of "HDAVI Control" compliant HDMI devices.

select

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

■ **Press to return to the previous screen**
RETURN

5 **Select "On"**
(default is On)

change

Now you can set each "VIERA Link" function according to your preference (p. 30-33).

Note

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

Viewing with VIERA IMAGE VIEWER

The VIERA Image Viewer is a function that lets you easily view still images on a VIERA television by simply inserting an SD card into the VIERA SD card slot.
(Media other than SD Cards will not work.)

Photo viewer

1 Insert the SD card

* This setting will be skipped next time unless you select "Set later".

Set "Image viewer settings" and select "Play image viewer now"
● "Image viewer settings" will be displayed automatically each time an SD card is inserted for the first time.

Image viewer settings
Image viewer auto play
Set later
Play image viewer now

① select
② change
③ set

Slideshow: A Slideshow will start automatically next time.
Thumbnail: The Photo viewer menu will be displayed automatically next time.
Set later: "Image viewer settings" menu will be displayed repeatedly.
Off: The data can be played manually.

■ **Manual operation** ("Image viewer auto play" is "Off")

Display "Photo viewer"	Start the Slideshow

① select
② next

2 Select the data to be viewed

Thumbnail view

Photo viewer	
All photos	
Total	238
Name	Pana0001
Date	03/04/2010
Size	1029×1200

Pana0001 Pana0002 Pana0003 Pana0004
Pana0005 Pana0006 Pana0007 Pana0008
Pana0009 Pana0010 Pana0011 Pana0012

Select OK RETURN

G Folders　B Sort by month　Y Sort by date

① select
② view

To launch Slideshow
Selected picture information is displayed
Total number of images

Note
● Depending on the JPEG format, the "Information" contents may not be displayed correctly. Refer to p. 44 (Data format for SD Card browsing) for details.

3 View

Navigation area

Present status
(While reading the data)

Accessing

Rotate
Prev. — Play / Next / RETURN

Accessing

Prev. — Pause / Next / RETURN

Single photo view　　Slideshow

Displays one at a time

● To display/hide the Navigation area
➡ INFO
● Return to the Thumbnail view RETURN

Rotate 90 degrees (counter-clockwise)
To next photo
Rotate 90 degrees (clockwise)
To previous photo

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

■ **Press to return to the previous screen**
RETURN

Panasonic TV

SD Card

● Insert the card
Gently insert the SD Card label surface facing front.
Label surface
Push until a click is heard
Cutout

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

● Compliant card type (maximum capacity): SDHC Card (32 GB), microSDHC Card (16 GB), SD Card (2 GB), miniSD Card (2 GB), microSD Card (2 GB) (requiring microSDHC Card/miniSD Card/microSD Card adapter)
● If a microSDHC Card, miniSD Card or microSD Card is used, insert/remove it together with the adapter.
● For cautions and details on SD Cards (p. 44)

Sort

■ **To sort by Folder, month or date**
In ❷
① **Select the sort type**

Photo viewer		
All photos		
Total	238	
Name	Pana0001	
Date	03/04/2010	
Size	1029×1200	

Pana0001 Pana0002 Pana0003 Pana0004
Pana0005 Pana0006 Pana0007 Pana0008
Pana0009 Pana0010 Pana0011 Pana0012

Select OK RETURN

Slideshow　Folders　Sort by month　Sort by date

G Folders (ascending order of numeric/alphabetical)
B Sort by month (ascending order of the month)
Y Sort by date (ascending order of the date)

② **Select the directory**

Photo viewer	
All photos	
Sort by date	
15	
Date	09/23/2009
Number of photos	28 photos

09/23/2009 09/26/2009 10/10/2009 11/20/2009
28 photos 58 photos 3 photos 8 photos
12/25/2009 01/01/2010 02/15/2010 03/04/2010
24 photos 18 photos 16 photos 32 photos

Accessing

Select OK RETURN

① select
② OK

Photo viewer	
All photos	
09/23/2009	
Total	28
Name	Pana0001
Date	09/23/2009
Size	1029×1200

Pana0001 Pana0002 Pana0003 Pana0004
Pana0011 Pana0012 Pana0013 Pana0014
Pana0055 Pana0056 Pana0057 Pana0058

Accessing

Select OK RETURN

RETURN
Return to previous screen

Photo settings

In ❷ or ❸
① **Display "Photo settings"**
MENU

② **Select the item**

Photo settings	
Picture	
Audio	
Slideshow settings	
Soundtrack	Off

① select
② change
③ next

■ **Adjust the Picture/Audio**

Picture	1/2
Reset to defaults	
Picture mode	Vivid
Contrast	+30

① select
② adjust

example: Picture menu
Picture menu/Audio menu (p. 26)

■ **Set the Soundtrack**

Soundtrack	Off

① select
② change

Select the music from 5 types.
(Off/Music 1/Music 2/Music 3/Music 4/Music 5)

■ **Slideshow settings**

Slideshow settings	
Display interval	Fast
Repeat playback	Off
Transition effect	Off
Photo effect	Sepia

① select
② adjust

Note
● To stop in mid-cycle ➡ Press RETURN

Display interval	You can set how many seconds each image is displayed in the Slideshow mode. **(Short/Fast/Normal/Slow/Very slow)**
Repeat playback	Turn the Slideshow Repeat function on or off. **(Off/On)**.
Transition effect	Select the Transition effect. **(Off /Wipe ↓/Wipe ↑/Wipe →/Wipe ←/Comb ↑↓/Comb →←/Dissolve/Checker wipe/Random/Array/Collage)**
Photo effect	Select the conversion effect. **(Off/Sepia/Gray scale)**
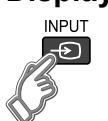
Watching Videos and DVDs

If you have applicable equipment connected to the TV, you can watch videos and DVDs on the TV screen.

Input Select

You can select the external equipment to access.

With the connected equipment turned On
1 Display the Input select menu
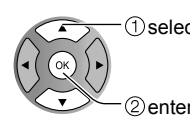
INPUT

2 Select the input mode

Input select

1	TV	
2	HDMI 1	DVD
3	HDMI 2	
4	Component 1	AUX
5	Component 2	
6	Video 1	
7	Video 2	GAME

(example)

1 2 3
4 5 6
7 8 9
0

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

or

①select
②enter

Select the input of your choice, then press OK.

● During the selection, if no action is taken for several seconds, the "Input select" menu disappears.

HDMI 1 —— Terminal
DVD —— Label

(example)

● The terminal and label of the connected equipment are displayed.
To label each of the inputs, please refer to p. 39.

Note

● The Input label will be displayed on the "Input select" screen if the Input label is set on p. 39.
● For side input terminals (Video 2), "GAME" input label is set as default. (Picture mode is set to "Game", refer to p. 45.)
● For more details on the Picture mode setting, refer to p. 45. For "Input labels", refer to p. 39.

3 Operate the connected equipment using the remote control supplied with the equipment

Note

● For details, see the manual for the connected equipment.

■ **To return to TV**

INPUT ➡ 1

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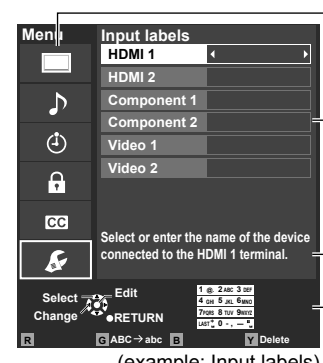
Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV best suited for you.

1 Display the menu

MENU

● Shows the functions that can be adjusted.
● Some functions will be disabled depending on the type of input signal.

Menu structure

Menu	Input labels	
	HDMI 1	◀ ▶
	HDMI 2	
	Component 1	
	Component 2	
	Video 1	
	Video 2	

Select or enter the name of the device connected to the HDMI 1 terminal.

Menu bar
Press OK to move to the Menu items.
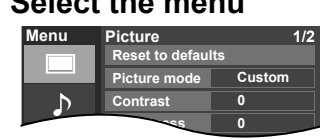
Menu items
Press OK to proceed to the next screen if available.

Help information

Operation guide

Select — Edit
Change — RETURN
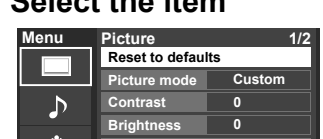
(example: Input labels)

2 Select the menu

Menu Picture 1/2

Reset to defaults
Picture mode — Custom
Contrast — 0

①select
②next

3 Select the item

Menu Picture 1/2

Reset to defaults
Picture mode — Custom
Contrast — 0
Brightness — 0
Color — 0
Tint — 0
Sharpness — 0

Resets all picture adjustments to factory default settings except for "Advanced picture".

(example: Picture menu)
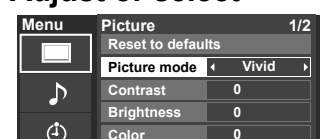
select

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

EXIT

■ **Press to return to the previous screen**

RETURN

4 Adjust or select

Menu Picture 1/2

Reset to defaults
Picture mode — ◀ Vivid ▶
Contrast — 0
Brightness — 0
Color — 0
Tint — 0
Sharpness — 0

Selects from preset picture modes.

(example: Picture menu)

adjust or select

How to Use Menu Functions

■ **Menu list**

Menu	Item		Adjustments/Configurations (alternatives)
Picture	**Reset to defaults***		Resets all picture adjustments to factory default settings except for "Advanced picture".
	Picture mode		Basic picture mode. **(Vivid/Standard/Cinema/Game/Custom)** (p. 45)
	Contrast, Brightness, Color, Tint, Sharpness		Adjusts the color, brightness, etc. for each Picture mode to suit your taste. ● Display range 　**Contrast/Brightness/Color/Sharpness:** 0 - 100 　**Tint:** -50 - +50
	Color temp.		Selects a choice of Cool (blue), Normal, or Warm (red) color. **(Cool/Normal/Warm)**
	x.v.Color		Auto: Provides the appropriate picture when images corresponding to "x.v.Color" are input via the HDMI input of this TV. **(Off/Auto)**
	C.A.T.S.		Adjusts the brightness and gradation according to the ambient lighting condition. **(Off/On)**
	Video NR		Reduces noise, commonly called snow. Leave it off when receiving a strong signal. **(Off/On)**
	Aspect adjustments	**Screen format**	Changes the format (aspect ratio). **(FULL/H-FILL/JUST/4:3/ZOOM)** Lets you choose the aspect depending on the format of received signal. (p. 43)
		H size	Adjusts the horizontal display range to reduce noise of both side edges of an image. **(Size 1/Size 2)** Size 2: Adjusts the image size according to the aspect mode to reduce noise. (p. 46)
		Zoom adjustments	Adjusts vertical alignment and size when aspect setting is "ZOOM".
	Advanced picture	**3D Y/C filter**	Minimizes noise and cross-color in the picture. **(Off/On)**
		Color matrix	Selects image resolution of component-connected devices. **(SD/HD)** ● SD: Standard Definition　HD: High Definition ● Only used with 480p video signal.
		MPEG NR	Reduces noise of specific digital signals of DVD, STB, etc. **(Off/On)**
		Black level	Selects Dark or Light. Valid only for external input signals. **(Dark/Light)**
		3:2 pulldown	Adjusts the picture recorded in 24 fps for optimum quality. **(Off/On/Auto)**
Audio	**Reset to defaults***		Resets Bass, Treble, and Balance adjustments to factory default settings.
	Bass		Increases or decreases the bass response.
	Treble		Increases or decreases the treble response.
	Balance		Emphasizes the left / right speaker volume.
	Advanced audio	**Surround**	Enhances audio response when listening to stereo. **(Off/On)**
		Volume leveler	Minimizes volume disparity after switching to external inputs.
		TV speakers	Switches to "Off" when using external speakers. **(Off/On)** ● "Surround" and "Volume leveler" do not work if "Off" is selected.
		HDMI 1 in HDMI 2 in	The default setting is "Digital" for the HDMI connection. (Digital input signal) Select audio input terminal when DVI cable is connected. (Analog audio input signal) **(Digital/Component 1/Component 2/Video 1/Video 2)**
Timer	**Sleep, Timer 1-5**		The TV can automatically turn On/Off at the designated date and time. (p. 40)
Lock			Locks the channels and programs. (p. 34)
Closed caption	**Closed caption**		Displays subtitles (Closed caption). (p. 38)

● In the AV mode, the Audio and Setup menus give fewer options.
 * Confirmation screen is displayed. Select "Yes" and press OK to reset.

(Continued)

■ **Menu list**

Menu	Item		Adjustments/Configurations (alternatives)
Setup	**Channel surf mode**		Sets the mode to select the channel with the Channel up/down button. **(All/Favorite/Digital only/Analog only)** ● Favorite: Only channels registered as FAVORITE. (p. 18)
	Language		Selects the screen menu language.
	Clock		Adjusts the clock. (p. 16)
	ANT/Cable setup		Sets channels. (p. 36)
	Input labels		Selects the terminal and label of the external equipment. (p. 39)
	Anti Image retention	**Pixel orbiter**	Prevents "Image retention" with Wobbling. **(Automatic/Periodic)** ● Automatic: Shifts the display image automatically. ● Periodic: Shifts the display image every (1/2/3/4) minutes according to what was set in the "Time (minutes)" menu.
		Time (minutes)	Sets the time for the "Pixel orbiter-Periodic" setting. **(1/2/3/4)**
		4:3 side bars	Changes the brightness of the side bar. **(Off/Dark/Mid/Bright)** (4:3 mode only) ● The recommended setting is "Bright" to prevent the panel "Image retention". (p. 46)
		Scrolling bar	Press "OK" to start the horizontal "Scrolling" on the screen. (p. 46)
	VIERA Link settings	**VIERA Link**	Controls the equipment connected to HDMI terminals. **(Off/On)** (p. 30) ● "Power off link", "Power on link", "Energy saving mode", "Unselected device energy save" and "Default speakers" cannot be selected if "Off" is set.
		Power on link	Sets "Power on link" of the HDMI connected equipment. **(No/Yes)** (p. 30)
		Power off link	Sets "Power off link" of the HDMI connected equipment. **(No/Yes)** (p. 30)
		Energy saving mode	Sets "Energy saving mode" of the HDMI connected equipment. **(Quick start/Save)** (p. 30)
		Unselected device energy save	Sets "Unselected device energy save" of the HDMI connected equipment. (p. 30) **(No (stay on)/Yes (with prompt)/Yes (no prompt))**
		Default speakers	Selects the default speakers. **(TV/Theater)** (p. 30)
	ECO/energy saving	**No signal for 10 minutes**	To conserve energy, the TV automatically turns off when NO SIGNAL and NO OPERATION continue for more than 10 minutes. **(Stay on/Power TV off)** **Note** ● Not in use when "Auto power on", "On/Off Timer" or "Lock" is set, or while "SD mode" or "Digital Channel" is selected. ● "No signal for 10 minutes was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No signal for 10 minutes". ● The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.
		No activity for 3 hours	To conserve energy, the TV automatically turns off when no operation of remote and side panel key continues for more than 3 hours. **(Stay on/Power TV off)** **Note** ● Not in use when "Auto power on" or "On/Off Timer" is set. ● "No activity for 3 hours was activated" will be displayed for about 10 seconds when the TV is turned on for the first time after the power was turned off by "No activity for 3 hours". ● The on-screen display will flash 3, 2 and 1 to indicate the last three (3) remaining minutes prior to the shut-off.
	Advanced setup	**Auto power on**	Turns TV On automatically when the cable box or connected device is turned On. **(No/Yes)** TV AC cord must be plugged into this device. TV turns on every time the power is restored. ● The "Sleep" timer, "On / Off timer", and "First time setup" will not function if "Auto power on" is set. (p. 40)
		Image viewer auto play	Sets the "Thumbnail" or "Slideshow" to play back SD cards automatically. **(Slideshow/Thumbnail/Set later/Off)**
	First time setup		Restarts the first time setup from "Language" setting. (p. 14)
	About		Displays TV version and software license.
	Reset to defaults		Performing Reset will clear all settings made with Setup, such as channel settings. (p. 36)

■ **Sub menu list**

Menu	Item	Adjustments/Configurations (alternatives)
Setup SUB MENU	**Channel surf mode**	Sets the mode to select the channel with the Channel up/down button. **(All/Favorite/Digital only/Analog only)**
	Set favorite	Sets favorite channels. (p. 19)
	Edit CH caption	Changes the station identifier. (p. 37)
	Signal meter	Checks the signal strength if interference or freezing occurs on a digital image. (p. 37)

● How to Use Menu Functions (picture, sound quality, etc.)

Advanced

VIERA Link™ "HDAVI Control™"∗

Simultaneously control all Panasonic "HDAVI Control" equipped components using one button on the TV remote.
Enjoy additional HDMI Inter-Operability with Panasonic products which have the "HDAVI Control" function.
This TV supports "HDAVI Control 5" function.
Connections to the equipment (DVD recorder DIGA, HD Camcorder, Home theater system, Amplifier, etc.) with HDMI cables allow you to interface with them automatically.

Equipment with the "HDAVI Control" function enables the following operations:

Version	Operations
HDAVI Control or later	● Automatic Input Switching (p. 31) ● Power on link (p. 31) ● Power off link (p. 31) ● Default speakers (p. 31) ● One-touch theater playback (p. 31) ● Speaker control (p. 33)
HDAVI Control 2 or later	● VIERA Link control only with the TV's remote control (p. 33) ● Unselected device energy save (for available equipment only) (p. 31)
HDAVI Control 3 or later	● Provides setting information (p. 31) ● Automatic lip-sync function (p. 31)
HDAVI Control 4 or later	● Energy saving mode (with Quick Start mode) (p. 31)
HDAVI Control 5	● Audio Return Channel Audio Return Channel (ARC) is a function that enables digital sound signals to be sent via an HDMI cable.

■ 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. Set the input mode to HDMI1 or HDMI2 (p. 24), and make sure that the image is displayed correctly.

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.

■ 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-CDHS15 (4.9 ft/1.5 m), RP-CDHS30 (9.8 ft/3.0 m), RP-CDHS50 (16.4 ft/5.0 m)
 * For more details on the external equipment's connections, please refer to the operating manuals for the equipment.

28

VIERA Link™ Connections

Follow the connection diagrams below for HDAVI control of a single piece of AV equipment such as a DVD recorder (DIGA), Home theater system.
Refer to page 30-33 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), Home theater system playback operate.

(Note)

● HDMI 1 is recommended.
 When connecting to HDMI 2, set the input mode to HDMI 2 (p. 24) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 30-33).

■ Connecting this unit to the DVD recorder (DIGA), Home theater system
● For DVD recorder (DIGA): Connect with HDMI cable
● For Home theater system
 Connect with the HDMI and audio cables.
 If audio cable is not connected, you cannot listen to the TV program through the theater system.
 * No optical cable is necessary for the equipment that has "HDAVI control 5" and is connected with an HDMI cable. (HDMI 1 only)

■ Connecting this unit to a DVD recorder (DIGA) and AV amp
When using a "VIERA Link" audio-video amplifier and a compatible DVD recorder (DIGA) use a daisy chain connection as shown below.

Back of the TV

Digital Audio out

HDMI cable

HDMI (AV IN) HDMI (AV OUT) * HDMI (AV OUT) HDMI (AV OUT) HDMI (AV OUT) HDMI (AV OUT)

or   or   or

or

DVD recorder (DIGA) with VIERA Link function   AV amp with VIERA Link function   Home theater systems with VIERA Link function   HD Camcorder with VIERA Link function   LUMIX with VIERA Link function   DVD recorder (DIGA) with VIERA Link function
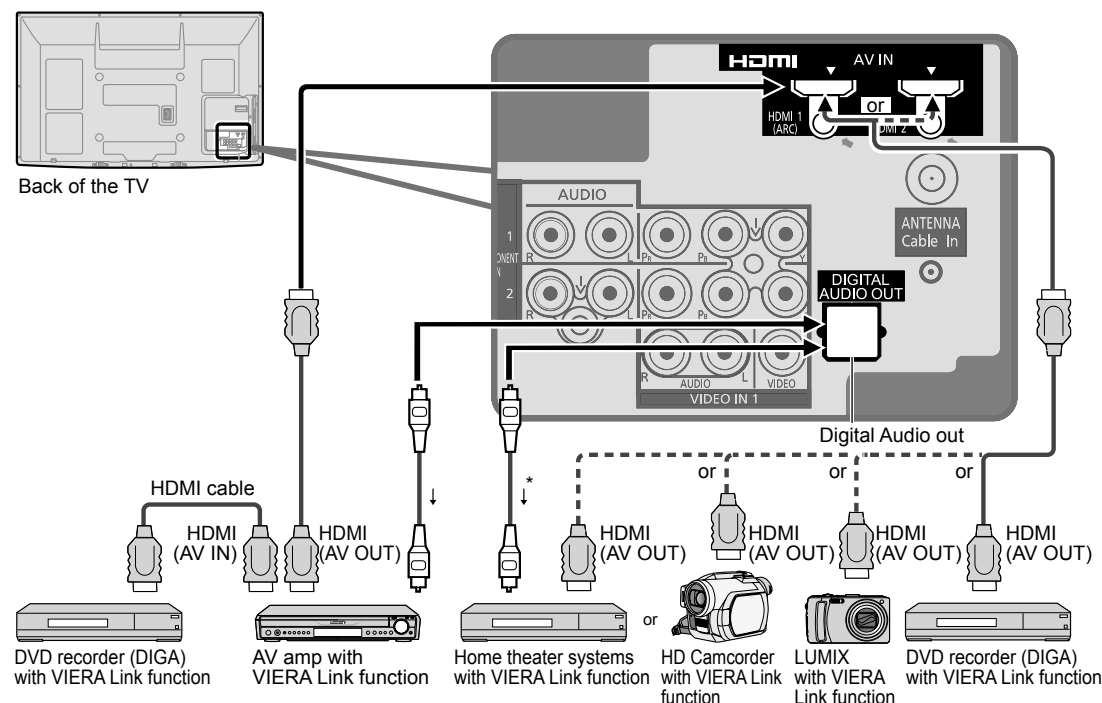
● One AV amp and one DVD recorder (DIGA) can be operated with this unit.
● Be sure to connect the AV amp between this unit and the DVD recorder (DIGA).

■ Setting of this unit after connection
After making connections as shown above, set "VIERA Link" (under "VIERA Link settings") to "On" using the Setup menu. (p. 21, 30-31).

(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.)
● For details about HDMI cables for connecting a Panasonic HD camcorder, read the manual for the equipment.

29

● VIERA Link™ "HDAVI Control™"

Advanced

VIERA Link™ "HDAVI Control™"* (Continued)

① Display the menu

MENU

② Select "Setup"

Menu	Setup	2/2
	VIERA Link settings	
	ECO / energy saving	
	Advanced setup	
	First time setup	
	About	
	Reset to defaults	
	Adjusts Surf mode, Language, Clock, Channels, Inputs, and other settings.	

① select
② next

③ Select "VIERA Link settings"

Menu	Setup	2/2
	VIERA Link settings	
	ECO / energy saving	
	Advanced setup	
	setup	

① select
② next

④ Select "VIERA Link"

Menu	VIERA Link settings	
	VIERA Link ◄ On ►	
	Power on link	No
	Power off link	Yes
	Energy saving mode	
	Quick start	
	Unselected device energy save	
	No (stay on)	
	Default speakers	TV
	Enables or disables interoperability of "HDAVI Control" compliant HDMI devices.	

select

⑤ Select "On"
(default is On)

change

⑥ Select settings

Menu	VIERA Link settings	
	VIERA Link	On
	Power on link	No
	Power off link	Yes
	Energy saving mode	
	Quick start	
	Unselected device energy save	
	No (stay on)	
	Default speakers ◄ TV ►	
	Selects either the TV's speakers or external home theater as default audio output.	

select

⑦ Set

Menu	VIERA Link settings	
	VIERA Link	On
	Power on link	No
	Power off link	Yes
	Energy saving mode	
	Quick start	
	Unselected device energy save	
	No (stay on)	
	Default speakers ◄ Theater ►	
	Selects either the TV's speakers or external home theater as default audio output.	

change

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

■ **Press to return to the previous screen**
RETURN ↩

Panasonic
TV

Automatic Input Switching

When using a Blu-ray Disc player, DVD player/recorder or Home theater system, the TV will automatically change to the appropriate input, when playback begins on one of those devices.
● For a Home theater system the speakers automatically switch to the theater system.

Power on link

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

Power off link

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

Energy saving mode
(for "HDAVI Control 4 or later" (with Quick Start mode))

● Condition
  Power off link: Yes; Energy saving mode: Quick Start
  The equipment has "HDAVI Control 4 or later (with Quick Start mode)" connected with an HDMI cable.
When TV is turned off, all connected VIERA Link compatible equipment is moved to ECO standby mode* automatically under above conditions.
  * Minimum power consumption of Standby condition for the equipment.

Unselected device energy save
(for "HDAVI Control 2 or later")

● Condition
  Unselected device energy save: Yes
  The equipment has "HDAVI Control 2 or later" (for available equipment only) connected with an HDMI cable.
  [Examples of timing for operation]
  • When the input is switched from the HDMI.
  • When the "Speaker output" is changed from "Home theater" to "TV".
The connected VIERA Link compatible equipment will be turned off automatically when not in use.

Default speakers

"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.

One-touch theater playback

If the "ONE TOUCH PLAY" key is pressed on the remote control for a 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.

Provides setting information
(for "HDAVI Control 3 or later")

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

Transmittable data	Recorder	Home theater	Player
① On Screen Display Language setting (English/Español/Français)	○	○	○
② Panel Aspect Ratio (16:9 fixed)	○	○	○
③ Closed caption information (Mode/CC type/Digital setting)	○	---	---
④ Channel information (Input signal/Channel list/Caption information)	○	---	---

◁ **Note** ▷
● There is a possibility that all the GUI language information might be set from the equipment, that has an HDMI CEC function connected to the TV with an HDMI cable. Depending on the operating conditions or the specification for each piece of equipment the setting may or may not be applied.
● For more 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 the TV's information above except the Power On/Off key operation. When you turn off this unit, the transmission will be interrupted (only when you are transmitting ④ Channel information).

Automatic lip-sync function
(for "HDAVI Control 3 or later")

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

● VIERA Link™ "HDAVI Control™"

Advanced

VIERA Link™ "HDAVI Control™" (Continued)

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

1 Display the VIERA Link menu

or

① select
② next

2 Select the item

```
VIERA Link
  VIERA Link control
◄      Recorder      ►
  Speaker output
      TV
  Back to TV
```

select

3 Select

```
VIERA Link
  VIERA Link control
◄    Home theater    ►
  Speaker output
      TV
  Back to TV
```

change

4 Set

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

■ **Press to return to the previous screen**
RETURN ↩

Speaker control

You can select the Home theater or TV speakers for audio output.
Control the theater speakers with the TV remote control. This function is available only when a Panasonic Amplifier or Player theater is connected.

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

```
VIERA Link
  VIERA Link control
      Recorder
  Speaker output
◄      TV      ►
  Back to TV
```

① select
② change

■ **Home theater:** Adjustment for the equipment

Volume up / down → VOL +/−

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.

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

In the VIERA Link menu, you can select an HDMI connected equipment and access it quickly. Continue using your TV 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/LUMIX/Digital camera)

```
VIERA Link
  VIERA Link control
◄      Recorder      ►
  Speaker output
      TV
  Back to TV
```

① select
② change

You can select available items only.

● If there is more than one equipment item, a number after the name indicates the number of items. (e.g. Recorder 1/Recorder 2/Recorder 3...)
● The number of equipment items that can be connected is three for recorders, and a total of three for Home theater/Player/Camcorder/LUMIX/Digital camera.

Note

● There is a limit to the number of HDMI connectors.

③ **Operate the equipment with the TV remote control, pointing it at the TV**
● To operate the equipment, read the manual of the equipment.

■ **Available TV remote control buttons**
Whether an operation is available differs depending on the connected equipment.

(cursor)	Move the cursor/Select	►	Play
OK	Set/Access	■	Stop
RETURN	Return to previous menu	◄◄ ►►	Reverse/Forward
SUB MENU	Display the functions menu on the equipment	◄◄ ►►|	Skip Reverse/Forward
R G B Y	Available when the purpose of the keys is displayed on screen	❙❙	Pause
EXIT	Exit	CC	Closed caption
CH ^/v	Channel Up/Down	SAP	SAP (Select Audio Mode)
0 – 9	0-9	⊡	Select digital subchannel

Back to TV

Returns the input selection of the device selected with the VIERA Link Control to the TV input.

Select "Back to TV"

```
VIERA Link
  VIERA Link control
      Recorder
  Speaker output
      TV
  Back to TV
```

① select
② OK

Lock

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

1 **Display the menu**

MENU

2 **Select "Lock"**

Menu	Password
	Enter password.
	- - - -

②next
①select

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

Blocks access, with password protection, to channels, programs or inputs.

3 **Input your 4-digit password**

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

Menu	Password
	Enter password.
	- - - -

1	2	3
4	5	6
7	8	9
	0	

● If it is your first time entering the password, enter the password twice in order to register it.

4 **Select the Lock mode**

Menu	Lock	
	Mode	Off
	Channel	Off
	Game	Off
	Program	Off
	Change password	

②set
①select
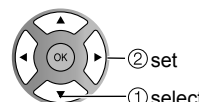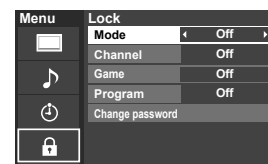
Off: Unlocks all the lock settings of "Channel", "Game" and "Program".
All: Locks all the inputs regardless of the lock settings of "Channel", "Game" and "Program".
Custom: Locks specified inputs of "Channel", "Game" and "Program".

5 **Select the item**

Menu	Lock	
	Mode	Custom
	Channel	Off
	Game	Off
	Program	Off
	Change password	

select

● "Channel", "Game" and "Program" are not accessible unless "Custom" is selected in "Mode".

6 **Set**

set

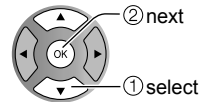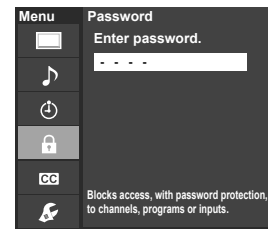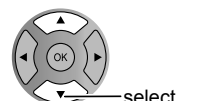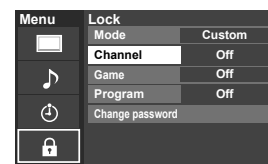■ **Press to exit from a menu screen**

EXIT

Caution
● Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)

Note
● When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.

Panasonic TV

Channel lock

Game lock

Program lock

Change password
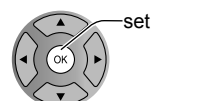
■ **To select the channel or the rating of the program to lock**

Select up to 7 (1-7) channels to block. These channels will be blocked regardless of the program rating.
① **Select "Mode" and set to "Custom"**
② **Select a channel to lock**

Menu	Channel lock	
	Mode	Custom
	Channel 1	–
	Channel 2	–
	Channel 3	–
	Channel 4	–
	Channel 5	–
	Channel 6	–
	Channel 7	–
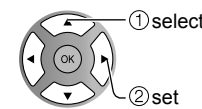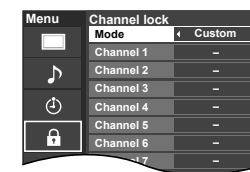
①select
②set

● To lock/unlock all channels: Select "Mode" and set to "All" or "Off".

All: Locks all channels
Off: Unlocks all channels

Locks Channel 3, Channel 4, and external inputs.
Select "Game" in 5 and set to "On"
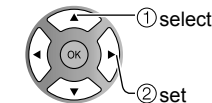
①select
②set

On: Locks
Off: Unlocks

■ **To set a rating level**
"V-chip" technology enables restricted shows to lock according to TV ratings.
① **Select "Mode" and set to "On"**

Menu	Program lock	
	Mode	On
	MPAA	Off
	U.S.TV	Off
	C.E.L.R.	Off
	C.F.L.R.	Off

②set
①select
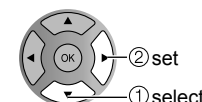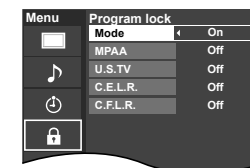
③ **Select the rating to lock**

select

Example of "MPAA" (U.S. movie ratings)

NR	No rating
G	General Audience: All ages admitted
PG	Parental Guidance Suggested
PG-13	Parents Strongly Cautioned: 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

● To get more information

② **Select the rating category you wish to follow**

Menu	Program lock	
	Mode	On
	MPAA	Off
	U.S.TV	Off
	C.E.L.R.	Off
	C.F.L.R.	Off

②next
①select
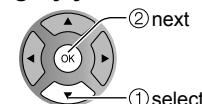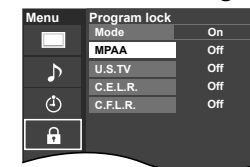
MPAA: U.S. movie ratings
U.S.TV: U.S. TV program ratings
C.E.L.R.: Canadian English ratings
C.F.L.R.: Canadian French ratings

■ **To change the password**
① In 4, select "Change password" and press OK
② Input the new 4-digit password twice

Menu	Lock	
	Mode	Off
	Channel	Off
	Game	Off
	Program	Off
	Change password	

Menu	Change password
	Enter new password.
	- - - -

● Lock

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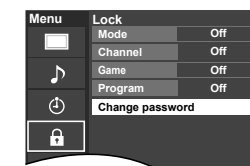
Note
● This television is designed to support the "Downloadable U.S. Region Rating System" when available. (Available only in U.S.A.)
● The Off rating is independent of other ratings.
● When placing a lock on a specific-age-based-rating level, the Off rating and any other more restrictive ratings will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

Editing and Setting Channels

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

1 Display the menu

2 Select "Setup"

Menu	Setup	1/2
	Channel surf mode	
	All	
	Language	
	Clock	
	ANT/Cable setup	
	Input labels	
	Anti image retention	
CC		
	Adjusts Surf mode, Language, Clock, Channels, Inputs, and other settings.	

② next
① select

3 Select "ANT/Cable setup"

Menu	Setup	1/2
	Channel surf mode	
	All	
	Language	
	Clock	
	ANT/Cable setup	
	Input labels	
	Anti image retention	
CC		
	Scans for Antenna or Cable channels. Specify when using Cable or Satellite box.	

② next
① select

4 Select the function

Menu	ANT/Cable setup	
	ANT in	Cable
	Auto program	
	Manual program	
	Signal meter	
CC		
	Automatically searches and saves available channels to memory.	

② next
① select

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

EXIT ×

5 Set

■ **To reset the settings of the Setup menu**
① Select "Reset to defaults" in the Setup menu (⚙) and press OK
② Input your 4-digit password with the number buttons
③ Select "YES" on the confirmation screen and press OK

Auto program
Set automatically

Automatically searches and adds available channels to the memory.

① **Select "ANT in"**
➡ Select "Cable" or "Antenna" or select "Not used" (p. 15).

② **Select "Auto program"**

Menu	ANT/Cable setup	
	ANT in	Cable
	Auto program	
	Manual program	
	Signal meter	

② next
① select

③ **Select a scanning mode** (p. 15)

Menu	Auto program	
	All channels	
	Analog only	
	Digital only	

② OK
① select

Settings are made automatically
● After the scanning is completed, select "Apply". (see below ⑤).
● All previously saved channels are erased.

Manual program
Set manually

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 "Channel surf mode"(p. 27)

① **Select "Edit"**

Manual program			
Edit	Apply	Cancel	
Channel	Caption	Favorite	Add
2	---	---	Yes
3	---	---	Yes
4	---	---	Yes
5	---	---	Yes

① select
② next

② **Select the item to edit**

Manual program			
Edit	Apply	Cancel	
Channel	Caption	Favorite	Add
2	---	---	Yes
3	---	---	Yes
4	---	---	Yes

Favorite
Caption   Add

① select the item to edit (Caption/Favorite/Add)
② next

R   G   Proceed to next page
Go back to the previous page

● Caption: Changes the station identifier
● Favorite: Registers channels to the Favorite List
● Add: Adds or skips channels

To cancel the Edit

Manual program			
Edit	Apply	Cancel	
Channel	Caption	Favorite	Add
2	---	---	Yes
3	---	---	Yes
4	---	---	Yes
5	---	---	Yes

① select
② next

Changes will be lost. Continue?
Yes   No

② OK (returns to "ANT/Cable setup")
① select "Yes"

③ **Edit**
● **Caption**

Edit CH caption	
Channel	80-101
Caption	@ D A

① change   or   ② set

1	2	3
4	5	6
7	8	9
	0	

Caption
Select or edit the station identifier. (maximum 7 characters available)

● **Favorite**

Set favorite	1/3
1	26-1
2	

① select
② set

Set favorite   Select the number

● **Add**
Press OK to select "Yes (add)" or "No (skip)"

④ **Move the cursor to a channel number**

Manual program			
Edit	Apply	Cancel	
Channel	Caption	Favorite	Add
2	---	---	Yes
3	---	---	Yes

① select
② press OK to tune to the channel

⑤ **Select "Apply"**

program			
	Apply	Cancel	
	Caption	Favorite	Add
	---	---	Yes

① select
② OK

Signal meter
Check signal strength

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

Menu	Signal meter	
	Channel	--
	Signal strength	
	Current	86%
	Peak level	98%
	Selects which channel to be tested for signal strength.	

1	2	3
4	5	6
7	8	9
	0	
or

① change channel
② OK

Signal intensity

● 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).
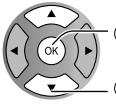● Available only for digital antenna channels.

● Editing and Setting Channels

Advanced

Closed Caption

1 **Display the menu**

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

EXIT ✕

2 **Select "Closed caption"**
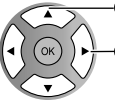
Menu	Closed caption	
📺	Reset to defaults	
	Mode	On
♪	Analog	CC1
⏱	Digital	Primary
	Digital setting	
🔒		
CC	Display broadcast TV's Closed Caption (CC)	
⚙	text when available.	

② next
① select

The television includes a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting the Closed caption (CC) information. (p. 43)

■ **Select the item and set**

Menu	Closed caption	
📺	Reset to defaults	
	Mode	On
♪	Analog	CC1
⏱	Digital	◄ Primary ►
	Digital setting	
🔒		
CC	Selects style and language for displaying	
⚙	digital Closed Caption.	

① select
② set

● The settings in "Analog" or "Digital" depend on the broadcaster.

Mode	On: To display Closed captions. CC on mute: To display Closed captions when the audio is muted. (when not using, select "Off").

Analog	(Choose the Closed caption service of Analog broadcasting.)

CC1-4: Information related to pictures (Appears at the bottom of the screen)

T1-4: Textual information (Appears over the entire screen)

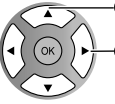| **Digital**	(The Digital Closed caption menu lets you configure the way you choose to view the digital captioning.)

Select the setting.
● "Primary", "Second.", "Service 3", "Service 4", "Service 5", "Service 6"

■ **To make more in-depth display settings in digital programs**
① Select "Digital setting" and press OK
② Select the item and set

Menu	Digital setting	
📺	Size	◄ Small ►
	Font	Default
♪	Style	None
⏱	Foreground	Black
	Fore. opacity	Solid
🔒	Background	Black
	Back. opacity	Solid
CC	Outline	Black
⚙	Selects the text size.	

① select
② set

Size	Text size
Font	Text font
Style	Text style (Raised, Depressed, etc.)
Foreground	Color of text
Fore. opacity	Opacity of text
Background	Color of text box
Back. opacity	Opacity of text box
Outline	Outline color of text (Identify the setting options on the screen.)

■ **To reset the settings**
① Select "Reset to defaults". Confirmation screen is displayed.
② Select "Yes" and press OK.

Closed caption

Display Closed caption

Input Labels

1 **Display the menu**
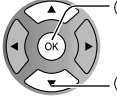
■ **Press to exit from a menu screen**

EXIT ✕

2 **Select "Setup"**

Menu	Setup	1/2
📺	Channel surf mode	
	All	
♪	Language	
⏱	Clock	
	ANT/Cable setup	
🔒	Input labels	
	Anti image retention	
CC		
⚙	Adjusts Surf mode, Language, Clock, Channels, Inputs, and other settings.	

② next
① select

3 **Select "Input labels"**

Menu	Setup	1/2
📺	Channel surf mode	
	All	
♪	Language	
⏱	Clock	
	ANT/Cable setup	
🔒	Input labels	
	Anti image retention	
CC		
⚙	Customize TV inputs with the names of your connected devices. For easier input selections.	

② next
① select

Devices connected to external input terminals can be labeled for easier identification during the input selection. (In selecting the input mode from p. 24 ②)

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

Menu	Input labels	
📺	HDMI 1	◄ ►
	HDMI 2	
♪	Component 1	
⏱	Component 2	
	Video 1	
🔒	Video 2	
CC		
⚙	Select or enter the name of the device connected to the HDMI 1 terminal.	

① select
② set

or

Video 2	G A A
Select or enter the name of the device connected to the Video 2 terminal.	

Select / OK / RETURN

R / G ABC→abc B / Y Delete

Follow the instructions on screen to complete the following operations.

Input labels

Display labels of Connected devices

Label Terminal

Video 1
VCR

[example]

● Terminals: HDMI 1-2/Component 1-2/Video 1-2
● Label: [BLANK] Not used/Blu-ray/DVD/DVD REC/HOME THTR/GAME/COMPUTER/VCR/CABLE/SATELLITE/ DVR/CAMERA/MONITOR/AUX/RECEIVER/MEDIA CTR/MEDIA EXT/OTHER
* If "Not used" is selected, the INPUT button press will skip its input.
● Each selected label will be displayed on the "Input select" screen. (p. 24)

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.
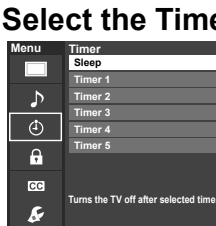
① Display the menu

② Select "Timer"

Menu	Timer
	Sleep
	Timer 1
	Timer 2
	Timer 3
	Timer 4
	Timer 5

Set the TV to turn on or off automatically at the designated date and time.

②next
①select

③ Select the Timer to set

Menu	Timer
	Sleep
	Timer 1
	Timer 2
	Timer 3
	Timer 4
	Timer 5

Turns the TV off after selected time.

①select
②next

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

④ Set the Timer

■ To set "Sleep" (Off Timer)
Set to shut the unit off after a pre-selected amount of time.

● 0/15/30/60/90 (minutes)

Menu	Sleep
	Sleep (minutes) ◄ 0 ►

set

■ To set "Timer 1-5" (On/Off Timer)
Select the item and set

Menu	Timer 1	
	Timer set	Off
	Inputs	TV
	Channel	--
	Day	4/18 [SUN]
	On time	--:--
	Off time	--:--

Sets the time when the TV turns on. The TV will turn off after 90 minutes or as specified.

①select
②set
or

1	2	3
4	5	6
7	8	9
	0	

	Day	4/18 [SUN]
⊕	On time	12
	Off time	--:--

Sets the time when the TV turns on. The TV will turn off after 90 minutes or as specified.

OK
Select ⟠ RETURN | AM/PM Clear

Timer set	Timer setting (Off/On)
Inputs	Select the inputs
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/Every SUN/Every MON/
Every TUE/Every WED/Every THU/Every FRI/ Every SAT

On time	The time to turn On
Off time	The time to turn Off

■ 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.

Recommended AV Connections

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

■ To watch camcorder images
Camcorder
VCR
DVD Player

■ DVD Recorder/ VCR

Connect with Ⓐ or Ⓑ

Ⓑ HDMI-DVI Conversion cable + Audio cable*

Ⓐ HDMI cable

Optical digital audio cable

OPTICAL IN

Amplifier

■ To watch DVDs
DVD Player/ Blu-ray Disc player/ Set Top Box

■ To watch digital video image
DVD Player or Set Top Box (HDMI compatible machines only)

■ To listen to the TV through speakers
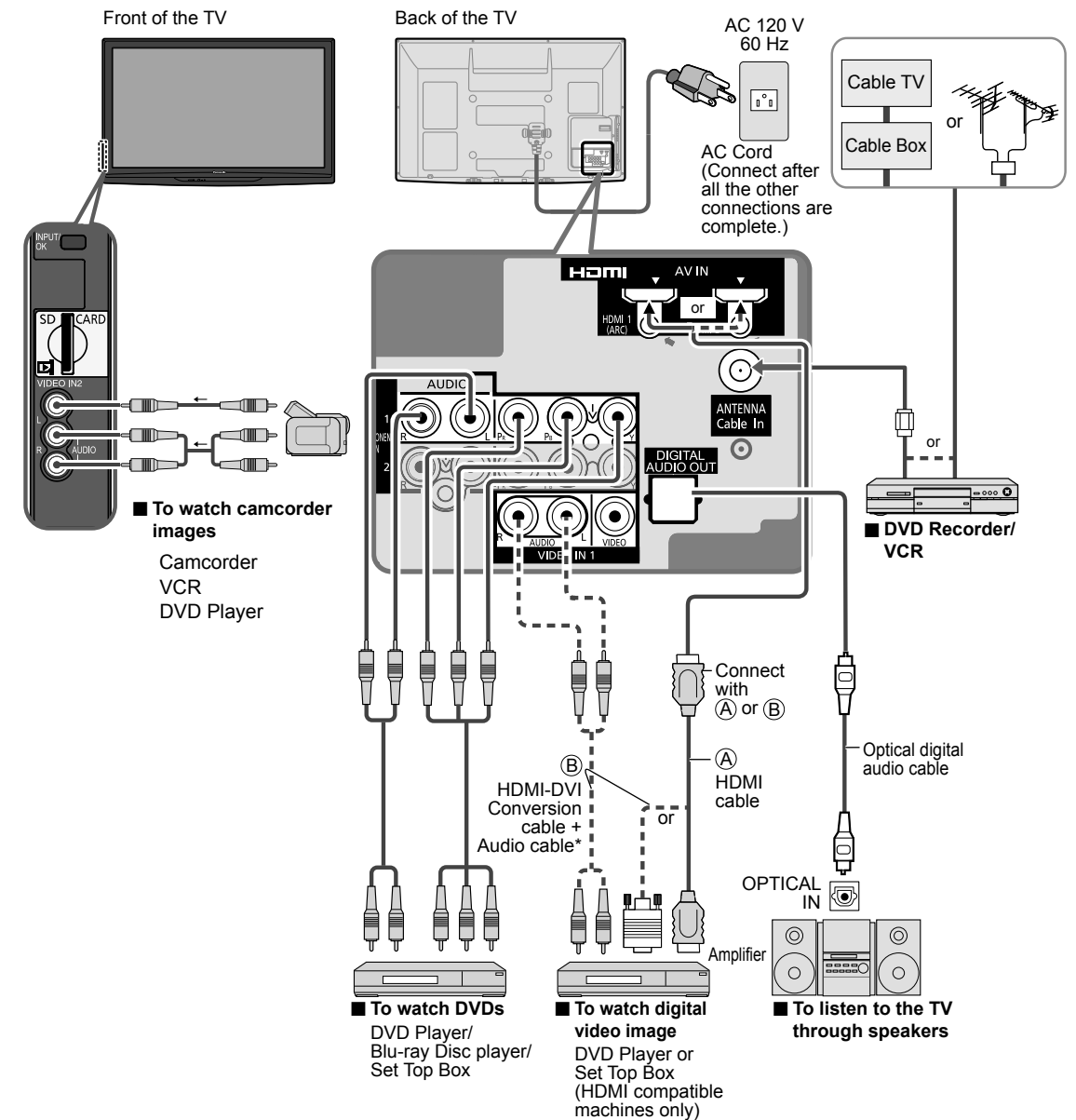
* Please see p. 26 for the setup when using an external analog audio cable with an HDMI to DVI cable.

Ratings List for Lock

"V-chip" technology enables you to lock channels or shows according to standard ratings set by the entertainment industry. (p. 35)

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

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

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

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

■ CANADIAN FRENCH RATINGS (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 set-top box or satellite receiver) has the CC set On using the Component or HDMI connection to the TV.
● If the CC is set to On 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.
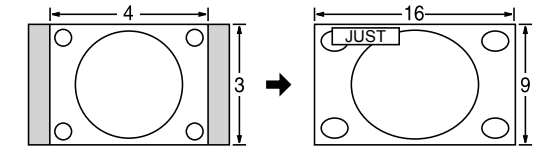
Aspect Ratio (FORMAT)

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. 18)
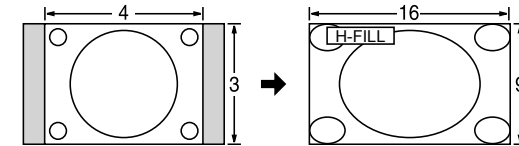(e.g.: in case of 4:3 image)

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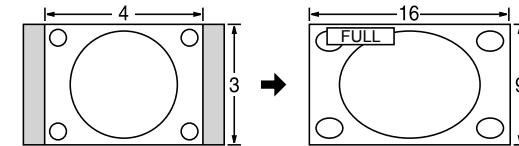
Enlarges the 4:3 image horizontally to the screen's side edges. (Recommended for anamorphic picture)

● H-FILL

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

● ZOOM

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

● JUST

Stretches to justify the 4:3 image to the four corners of the screen. (Recommended for normal TV broadcast)

● 4:3
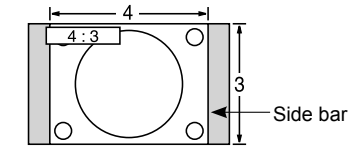
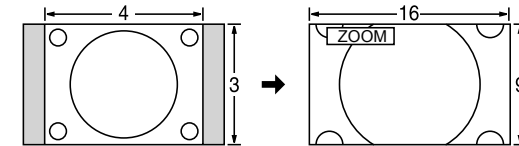Standard
(Note that "Image retention" of the side bar may occur from displaying it for a long time.)

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 adjustments
  Vertical image position and size can be adjusted in "ZOOM".
  ① Select "Zoom adjustments" on the "Picture" menu. (p. 26)
  ② V-position: Vertical position adjustment
  ③ V-size: Vertical size adjustment

● To reset the aspect ratio ➡ (OK)

Technical Information
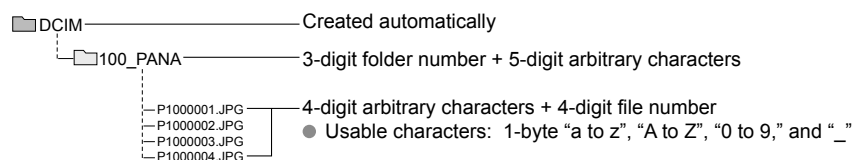
Data format for SD Card browsing

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

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 20,000,000

   * 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

    📁DCIM —————————————— Created automatically

        📁100_PANA —————— 3-digit folder number + 5-digit arbitrary characters

             P1000001.JPG ——— 4-digit arbitrary characters + 4-digit file number
             P1000002.JPG   ● Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"
             P1000003.JPG
             P1000004.JPG

- 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.jp/support/global/cs (This site is in English only)

Cautions in handling SD Card

- Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.
- 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 high pressure or impact.
- Insert the card in the correct direction (otherwise, card or unit 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.)

2.1 mm / 32 mm / 24 mm
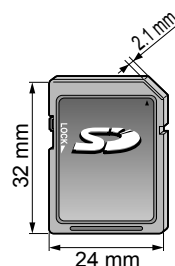
SD Card warning messages

Message	Meaning
SD card slot is empty.	● The card is not inserted.
No photos	● The card has no data or this type of data is not supported.
Cannot read file	● The file is broken or unreadable. ● The TV does not support the format.

(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 the 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 equipment that has "HDAVI Control 2 or later" function to the TV with an HDMI cable, the sound from DIGITAL AUDIO OUT terminal can be output as multi channel surround.
- "HDAVI Control 5" is the newest standard (current as of December, 2009) 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 set-top box or 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" or "HDMI 2 in" menu screen. (p. 26)
  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" 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 p. 46.

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.
- 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.

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 games. This mode will be set automatically if "GAME" is selected from Input label setting (p. 39)
- Custom (Photo):   Customizes each item according to your taste.
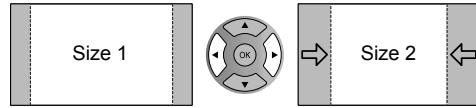   Photo is displayed in JPEG menu.

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.

● Technical Information

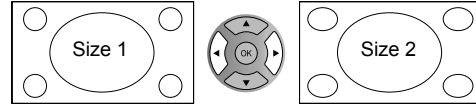FAQs, etc.

Technical Information (Continued)

H size

● Aspect Ratio: 4:3

● The width will be decreased on both sides to reduce noise.

● Aspect Ratio: FULL/JUST(H-FILL/ZOOM)

● The width will be increased on both sides to reduce noise.

See page 26 for more information

4:3 side bars

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 page 27 for more information
● The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (p. 45).
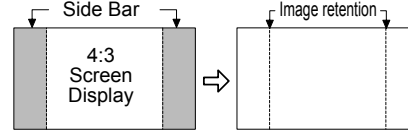
Scrolling bar

Scrolling bar: To prevent "Image retention", scrolls white vertical bar from left to right on a black screen.
● Press any key except the POWER key to return to previous screen.
● You will return to the previous screen if no key operation has been performed for 15 minutes.
See page 27 for more information

[Scrolling bar]
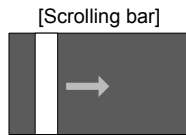
Input signals that can be displayed

* Mark: Applicable input signal for Component (Y, P_B, P_R) 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.

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 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.)

● Care and Cleaning
Technical Information

FAQs, etc.

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. 51)
For additional assistance, please contact us via the website at:
www.panasonic.ca

White spots or shadow images (noise)
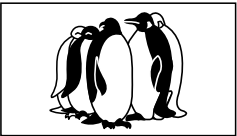
- Check the position, direction, and connection of the antenna.

Interference or frozen digital channels
(intermittent sound)
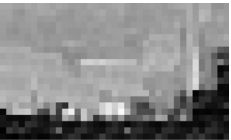
- Change the direction of antenna for digital channels.
- Check "Signal meter" (p. 37). If the signal is weak, check the antenna and consult your local dealer.

The remote control does not work

- Are the batteries installed correctly? (p. 8)
- Are the batteries new?

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

- Is the HDMI cable connected properly? (p. 29, 41)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 46)
- Use equipment compliant with EIA/CEA-861/861B.

When the channel is changed on an STB that is connected with HDMI, "HDMI" may be displayed on the top left of the screen

- This is not a malfunction.

Recording does not start immediately

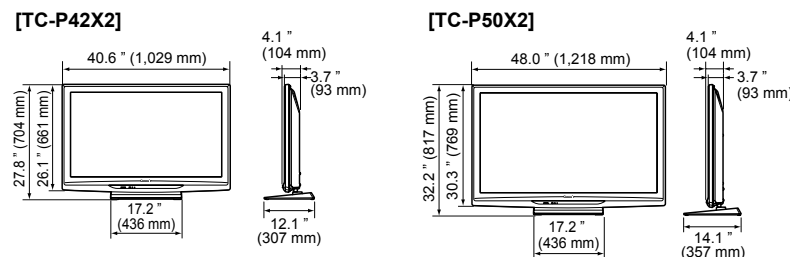- Check the settings of the recorder. For details, read the manual of the recorder.

48
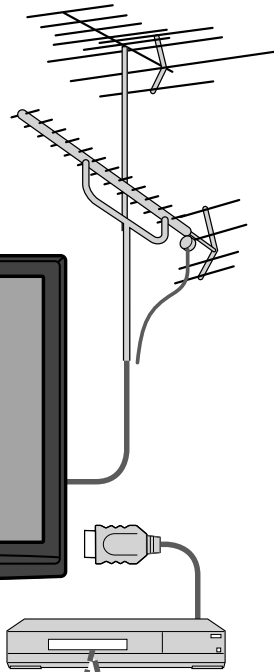
If there is a problem with your TV, please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).

Problem	Actions
Screen	
"VIERA" logo moves on the screen	● The function to prevent "Image retention" is activated. (Not a faulty symptom) ● The screen saver is activated if the TV unit is not operated for a certain time in SD mode. ● "Image retention" (p. 7)
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. 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 or motorcycle ignition systems, fluorescent lamp, etc.)
No image is displayed on screen	● Check Picture menu (p. 26) ● Check the cable connections. (p. 11-12) ● Check that the correct input has been selected. (p. 24)
Only spots are displayed instead of images	● Check the channel settings. (p. 36) ● 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. 26) and volume. ● Check the AV cable connections. (p. 11-12) ● Check that the correct input has been selected. (p. 24)
Black Box appears	● Change settings of Closed Caption (CC). (p. 38)
Sound	
No sound is produced	● Are the speakers' cables connected correctly? (p. 41) ● Is "Sound Mute" active? (p. 13) ● Is the volume set to the minimum? ● Is "TV speakers" set to "Off"? (p. 26) ● Change "SAP" settings. (p. 18) ● Check "HDMI 1 in" or "HDMI 2 in" settings. (p. 26)
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- Tick/Click sound 3- 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- 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. 3- Electrical circuits are active while the TV set is on. This is not a sign of faulty operation or a malfunction.
TV set	
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.

● Frequently Asked Questions

FAQs, etc.

49

Specifications

	TC-P42X2	TC-P50X2
Power Source	AC 120 V, 60 Hz	
Power Consumption — Maximum	235 W	299 W
Power Consumption — Standby condition	0.5 W	0.3 W
Plasma Display panel — Drive method	AC type	
Plasma Display panel — Aspect Ratio	16:9	
Plasma Display panel — Visible screen size (W × H × Diagonal)	42 " class (41.6 inches measured diagonally)	50 " class (49.9 inches measured diagonally)
(No. of pixels)	36.2 " × 20.4 " × 41.6 " (921 mm × 518 mm × 1,057 mm)	43.5 " × 24.4 " × 49.9 " (1,105 mm × 622 mm × 1,268 mm)
	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	
Sound — Audio Output	20 W [10 W + 10 W] (10 % THD)	
Channel Capability (Digital/Analog)	VHF/ UHF: 2 - 69, CATV: 1 - 135	
Operating Conditions	Temperature: 32 °F – 104 °F (0 °C – 40 °C) Humidity: 20 % – 80 % RH (non-condensing)	
Connection Terminals — VIDEO IN 1-2	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]	
Connection Terminals — COMPONENT IN 1-2	Y: 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]	
Connection Terminals — HDMI 1-2	TYPE A Connector × 2 ● This TV supports "HDAVI Control 5" function.	
Connection Terminals — Card slot	SD CARD slot × 1	
Connection Terminals — DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic	
FEATURES	3D Y/C FILTER CLOSED CAPTION V-Chip VIERA IMAGE VIEWER HDAVI Control 5	
Dimensions (W × H × D) — Including pedestal	40.6 " × 27.8 " × 12.1 " (1,029 mm × 704 mm × 307 mm)	48.0 " × 32.2 " × 14.1 " (1,218 mm × 817 mm × 357 mm)
Dimensions (W × H × D) — TV Set only	40.6 " × 26.1 " × 3.7 " (4.1") (1,029 mm × 661 mm × 93 mm (104 mm))	48.0 " × 30.3 " × 3.7 " (4.1") (1,218 mm × 769 mm × 93 mm (104 mm))
Mass — Including pedestal	57.4 lb. (26.0 kg)	72.8 lb. (33.0 kg)
Mass — TV Set only	53.0 lb. (24.0 kg)	70.6 lb. (32.0 kg)

[TC-P42X2]

40.6 " (1,029 mm) 4.1 " (104 mm) 3.7 " (93 mm)
27.8 " (704 mm) 26.1 " (661 mm)
17.2 " (436 mm) 12.1 " (307 mm)

[TC-P50X2]

48.0 " (1,218 mm) 4.1 " (104 mm) 3.7 " (93 mm)
32.2 " (817 mm) 30.3 " (769 mm)
17.2 " (436 mm) 14.1 " (357 mm)

Note

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

Limited Warranty (for Canada)

Panasonic Canada Inc.
5770 Ambler Drive, Mississauga, Ontario L4W 2T3

PANASONIC PRODUCT – LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship under normal use and for a period as stated below from the date of original purchase agrees to, at its option either (a) repair your product with new or refurbished parts, (b) replace it with a new or a refurbished equivalent value product, or (c) refund your purchase price. The decision to repair, replace or refund will be made by Panasonic Canada Inc.

Viera TV (42" & over)	In-home service	One (1) year, parts (including panel) and labour.
Viera TV (under 42")	Carry-in service	One (1) year, parts (including panel) and labour.

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

In-home service requires clear, complete and easy access to the product by the Authorized Servicer and does not include removal or re-installation of an installed product. If removal is required to service the product, it will be at the discretion of the Servicer and in no event will Panasonic Canada Inc. or the Servicer be liable for any special, indirect or consequential damages.

This warranty is given only to the original purchaser, or the person for whom it was purchased as a gift, of a Panasonic brand product mentioned above sold by an authorized Panasonic dealer in Canada and purchased and used in Canada, which product was not sold "as is", and which product was delivered to you in new condition in the original packaging.

IN ORDER TO BE ELIGIBLE TO RECEIVE WARRANTY SERVICE HEREUNDER, A PURCHASE RECEIPT OR OTHER PROOF OF DATE OF ORIGINAL PURCHASE, SHOWING <u>AMOUNT PAID AND PLACE OF PURCHASE</u> IS REQUIRED

<u>**LIMITATIONS AND EXCLUSIONS**</u>
This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by Panasonic Canada Inc., or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, or service by anyone other than a Authorized Servicer, or damage that is attributable to acts of God. Dry cell batteries are also excluded from coverage under this warranty.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT OR ARISING OUT OF ANY BREACH OF ANY EXPRESS OR IMPLIED WARRANTY. (As examples, this warranty excludes damages for lost time, travel to and from the Authorized Servicer, loss of or damage to media or images, data or other memory or recorded content. This list of items is not exhaustive, but for illustration only.)

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable. This warranty gives you specific legal rights and you may have other rights which vary depending on your province or territory.

<u>**WARRANTY SERVICE**</u>

For product operation and information assistance, please contact:
Our Customer Care Centre: 1-800 #: 1-866-330-0014
Email link: "Contact us → email" on www.vieraconcierge.ca

For product repairs, please contact Viera Customer Care Agent using the above contact info.

IF YOU SHIP THE PRODUCT TO A SERVICENTRE
Carefully pack and send prepaid, adequately insured and preferably in the original carton.
Include details of the defect claimed, and proof of date of original purchase.

● Limited Warranty (for Canada) ● Specifications

FAQs, etc.