Panasonic

Operating Instructions
Plasma Television

Model No. **TH-P42X10D**
TH-P42X10K
TH-P42X10M
TH-P42X10P
TH-P42X10R
TH-P42X10S
TH-P42X10T
TH-P50X10D
TH-P50X10K
TH-P50X10M
TH-P50X10P
TH-P50X10R
TH-P50X10S
TH-P50X10T

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.

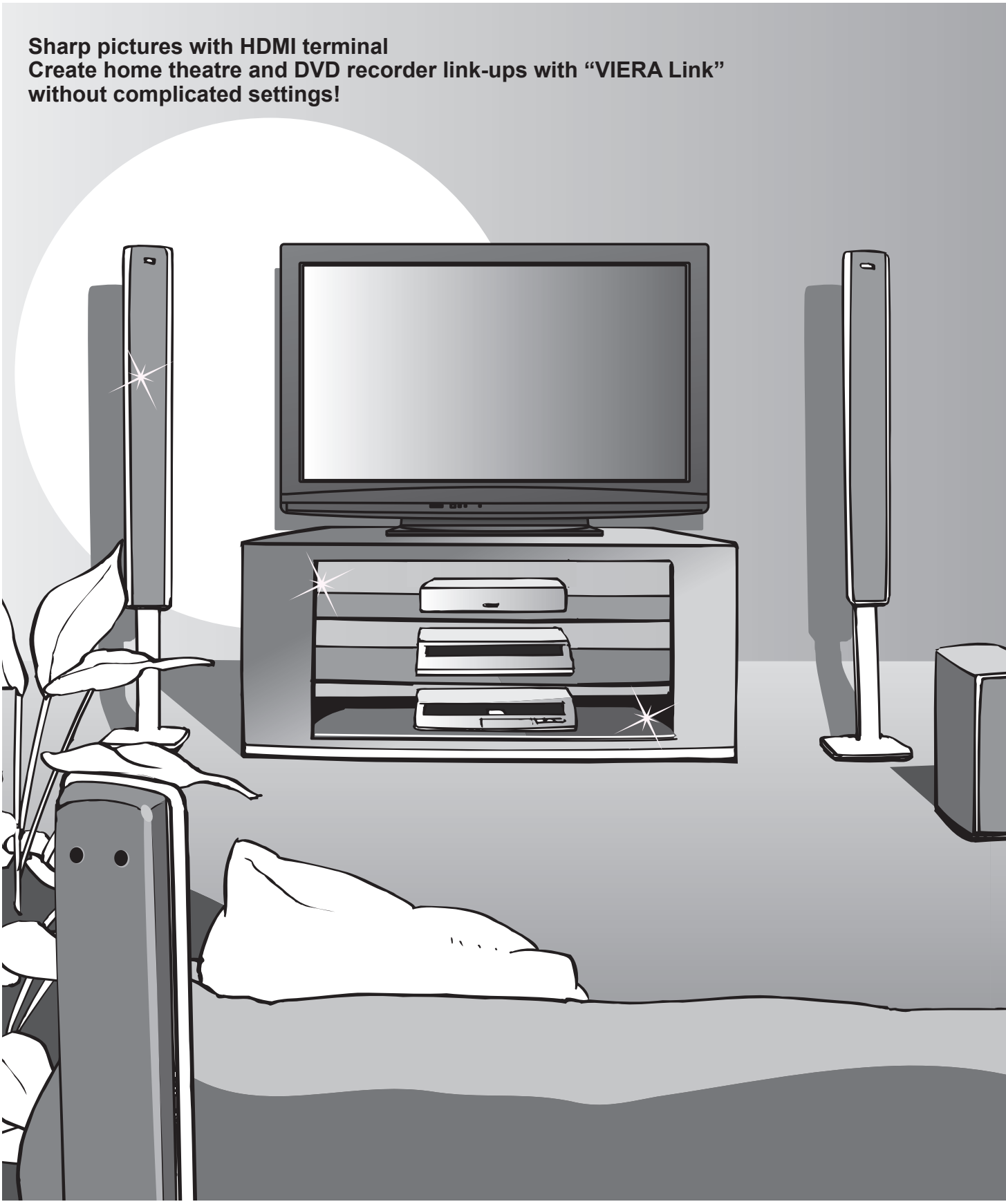
English

TQBC2420-2

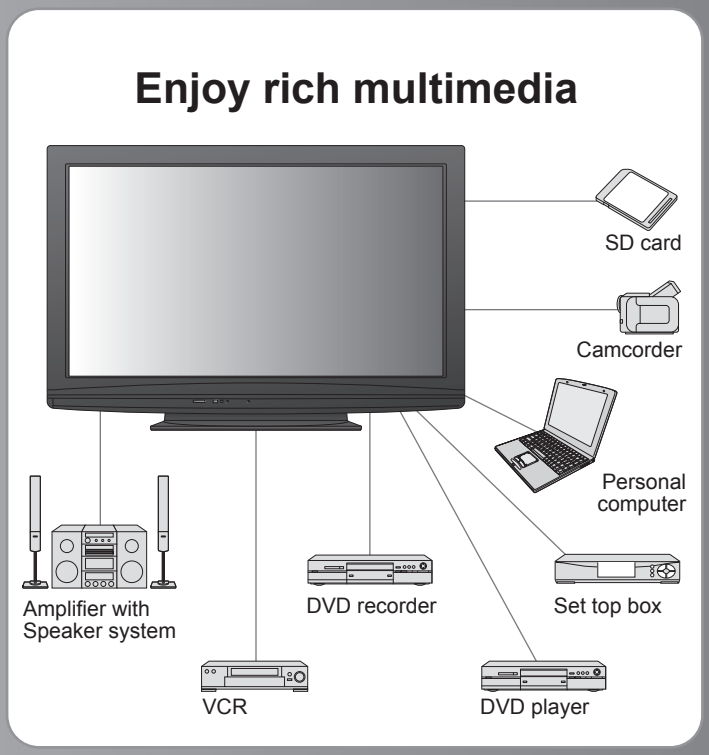
Turn your own living room into a movie theatre!

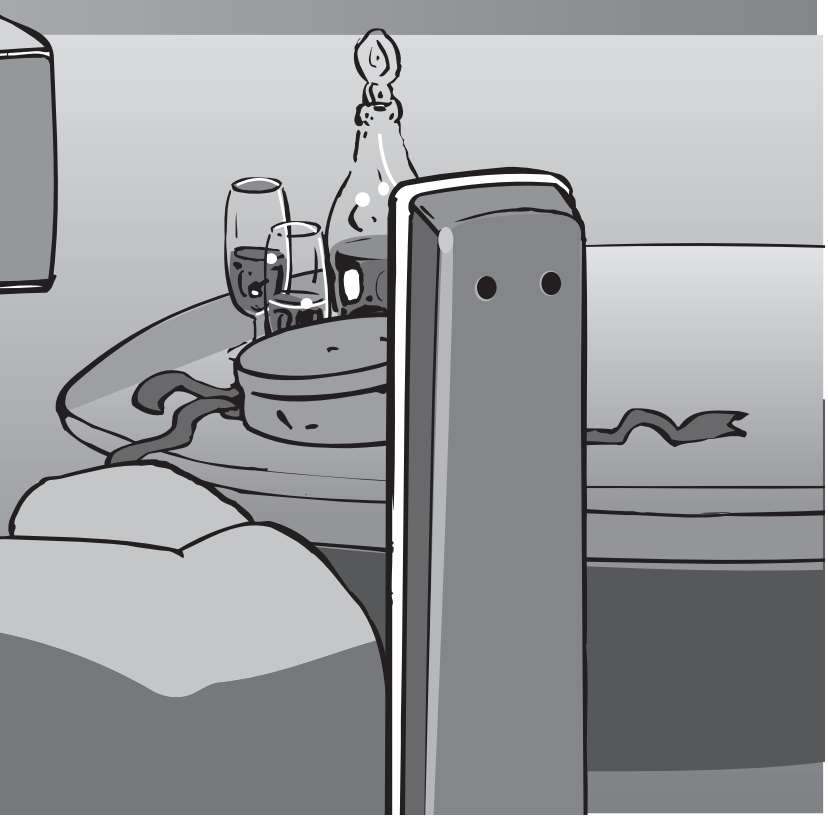
Experience an amazing level of multi-

Sharp pictures with HDMI terminal
Create home theatre and DVD recorder link-ups with “VIERA Link” without complicated settings!



media excitement





Contents

Be Sure to Read

- Safety Precautions (Warning / Caution) 4
- Notes 5
- Maintenance 8

Quick Start Guide

- Accessories / Options 6
- Identifying Controls 8
- Basic Connection 10
- Auto Tuning 12

Basic Features

- Watching TV 14
- Viewing Teletext 16
- Watching Videos and DVDs 18

Advanced Features

- How to Use Menu Functions (picture, sound quality, etc.) 20
- Editing Channels 24
- Control Channel Audience 25
- Tuning Channels 26
- Input Labels 28
- Restore Settings 29
- VIERA Tools 30
- Displaying PC Screen on TV 31
- Viewing from SD Card (VIERA IMAGE VIEWER) 32
- VIERA Link “HDAVI Control™” 35
- External Equipment 40

Technical Features

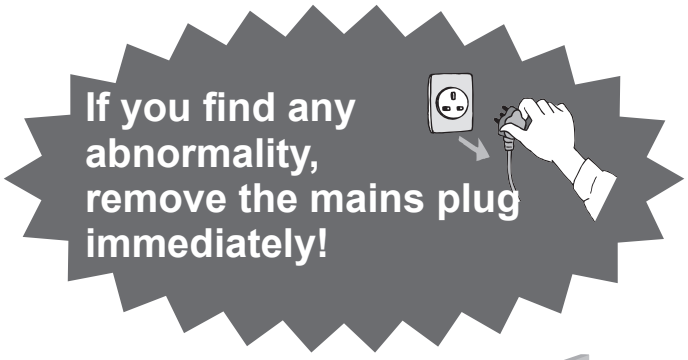
- Technical Information 42
- FAQs 45
- Specifications 47
- Licence 48

Safety Precautions

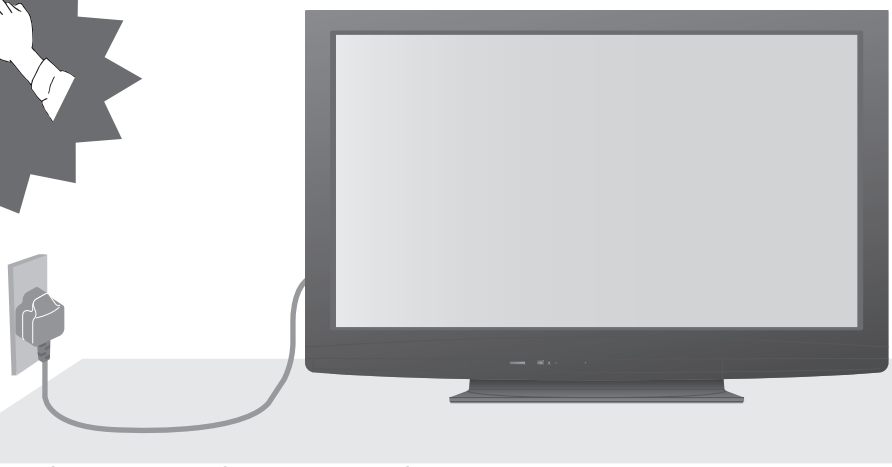
Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. If the mains plug is loose, it could generate heat and cause fire.
- Ensure that the mains plug is easily accessible.
- Ensure the earth pin on the mains plug is securely connected to prevent electrical shock.
- Do not touch the mains plug with a wet hand. This may cause electrical shock.
- Do not use any mains lead other than that provided with this TV. This may cause fire or electrical shock.
- Do not damage the mains lead. A damaged lead may cause fire or electrical shock.
  - Do not move the TV with the lead plugged in the socket outlet.
  - Do not place a heavy object on the lead or place the lead near a high-temperature object.
  - Do not twist the lead, bend it excessively, or stretch it.
  - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
  - Do not use a damaged mains plug or socket outlet.



AC 220–240 V, 50 / 60 Hz (TH-P42X10P, TH-P50X10P only: AC 110–240 V, 50 / 60 Hz)



- Mains plug types vary between countries.

Power source

- This TV is designed to operate on AC 220–240 V, 50 / 60 Hz. (TH-P42X10P, TH-P50X10P only: AC 110–240 V, 50 / 60 Hz)

Do not remove covers NEVER modify the TV yourself

High-voltage components may cause serious electrical shock.

- Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Keep liquids away from the TV

- To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
- Do not place containers with water (flower vase, cups, cosmetics, etc.) above the TV, including on shelves above, etc.

Do not expose to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

Do not place foreign objects inside the TV

- Do not allow any objects to drop into the TV through the air vents. Fire or electrical shock may result.

Do not place the TV on sloped or unstable surfaces

- The TV may fall off or tip over.

Use only the dedicated pedestals / mounting equipment

- Using an unapproved pedestal or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use approved pedestals (p. 7) / mounts (p. 6).

Do not allow children to handle SD Card

- As with a small object, SD Card can be swallowed by young children. Please remove SD Card immediately after use.

Caution

This appliance is intended for use in tropical climates

When cleaning the TV, remove the mains plug

- Cleaning an energised TV may cause electrical shock.

When the TV is not going to be used for a long period of time, remove the mains plug

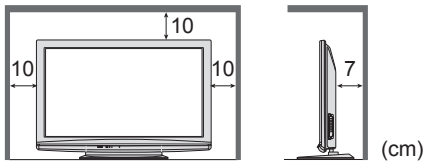
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

Transport only in upright position

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

Allow sufficient space around the TV for radiated heat

Minimum distance



(cm)

- When using the pedestal, keep the space between the bottom of the TV and the surface where the TV is set.
- In case of using Wall-hanging bracket, follow the manual of it.

Do not block the rear air vents

- Blocked ventilation by newspapers, table cloths, curtains, etc. may cause overheating, fire or electrical shock.

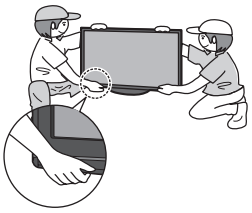
Do not expose your ears to excessive volume from the headphones

- Irreversible damage can be caused.

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. Handle the TV by 2 or more people. Support as shown to avoid injury caused by the TV tipping or falling.



Notes

Do not display a still picture for a long time

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

Typical still images

- Programme number and other logos
- Image displayed in “4:3” mode
- Video game
- Computer image

To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed. (p. 45)

Auto power standby function

- If no signal is received and no operation is performed in TV mode for 30 minutes, the TV will automatically go to standby mode.

Keep the TV away from these types of equipment

- Electronic equipment
  In particular, do not place video equipment near the TV. Electromagnetic interference may distort images / sound.
- Equipment with an infrared sensor
  This TV also emits infrared rays. This may affect operation of other equipment.

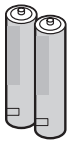
Accessories / Options

Standard accessories

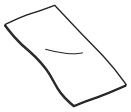
Check that you have the accessories and items shown ☑

☐ Remote Control
- N2QAYB000370

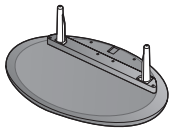
☐ Batteries for the Remote Control (2)
- R6 (AA)



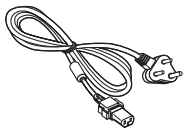
☐ Cleaning cloth



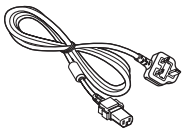
☐ Pedestal
➡ p. 7



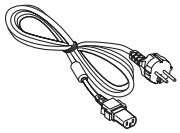
☐ Mains Lead ➡ p. 10



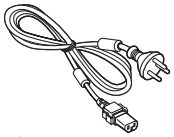
(TH-P42X10D
TH-P50X10D)



(TH-P42X10M
TH-P42X10P
TH-P42X10S
TH-P42X10K
TH-P50X10M
TH-P50X10P
TH-P50X10S
TH-P50X10K)



(TH-P42X10R
TH-P50X10R)



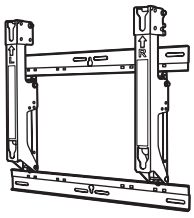
(TH-P42X10T
TH-P50X10T)

☐ Operating Instructions

Caution
- This product contains possibly dangerous parts (such as plastic bags), that can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

Optional accessories

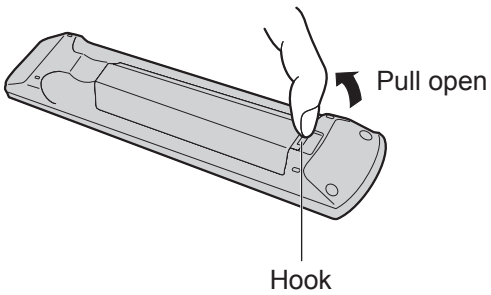
Wall-hanging bracket
- TY-WK4P1RW



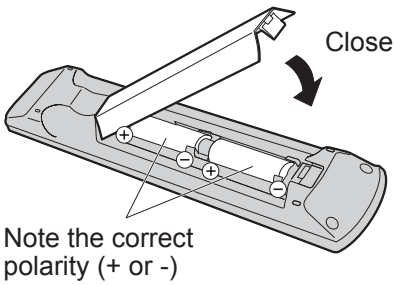
Caution
- In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.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

Installing remote's batteries

1



2



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.
- Do not burn or breakup batteries.
  Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Attaching the pedestal

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 while 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 insufficient care is 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.

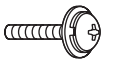
Ensure that the TV does not fall over.

- If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

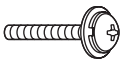
Two or more people are required to install and remove the TV.

- If two or more people are not present, the TV may be dropped, and personal injury may result.

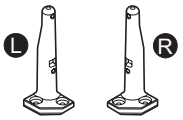
Ⓐ Assembly screw (4) (silver)
- XYN5+F18FN


M5 × 18

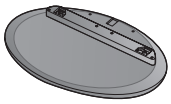
Ⓑ Assembly screw (4) (black)
- THEL060N


M5 × 25

Ⓒ Pole (2)
- L:TBL3EA3008
  R:TBL3EA3007



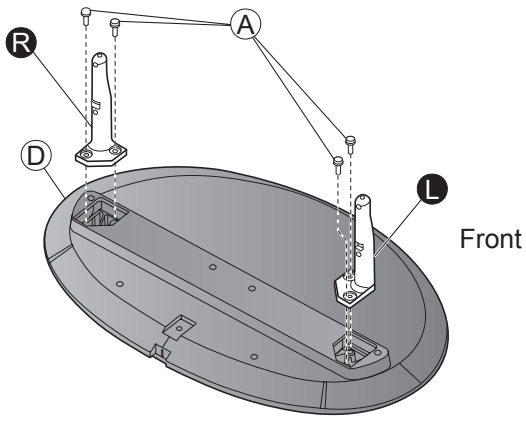
Ⓓ Base
- TBL3EX0005
  (TH-P42X10D, TH-P42X10K, TH-P42X10M, TH-P42X10P, TH-P42X10R, TH-P42X10S, TH-P42X10T)
- TBL3EX0006
  (TH-P50X10D, TH-P50X10K, TH-P50X10M, TH-P50X10P, TH-P50X10R, TH-P50X10S, TH-P50X10T)



Assembling the pedestal

Use the four assembly screws Ⓐ to fasten the left and right poles to the base securely.

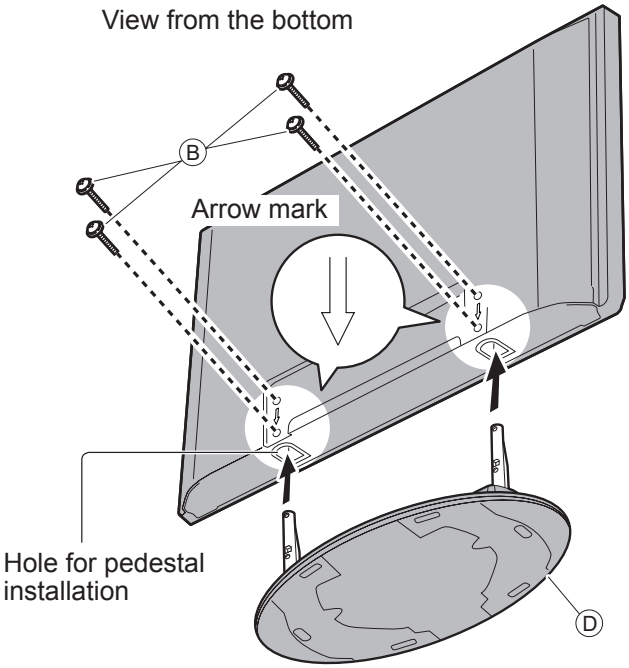
- Make sure that the screws are securely tightened.
- Forcing the assembly screws the wrong way will strip the threads.
- "L" or "R" mark is stamped on the bottom of the pole.



Securing the TV

Use the assembly screws Ⓑ to fasten securely.

- Make sure that the screws are securely tightened.
- Carry out the work on a horizontal and level surface.



Maintenance

First, remove the mains plug from the socket outlet.

Display Panel

Regular care: Gently wipe the surface clean of dirt by using a soft cloth.
Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- Do not tap or scratch the surface with your fingernail or other hard object.
- Take care not to subject the surface to insect repellent, solvent, thinner, or other volatile substances. This may degrade surface quality.

Cabinet, Pedestal

Regular care: Wipe the surface clean using a soft dry cloth.
Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

Caution

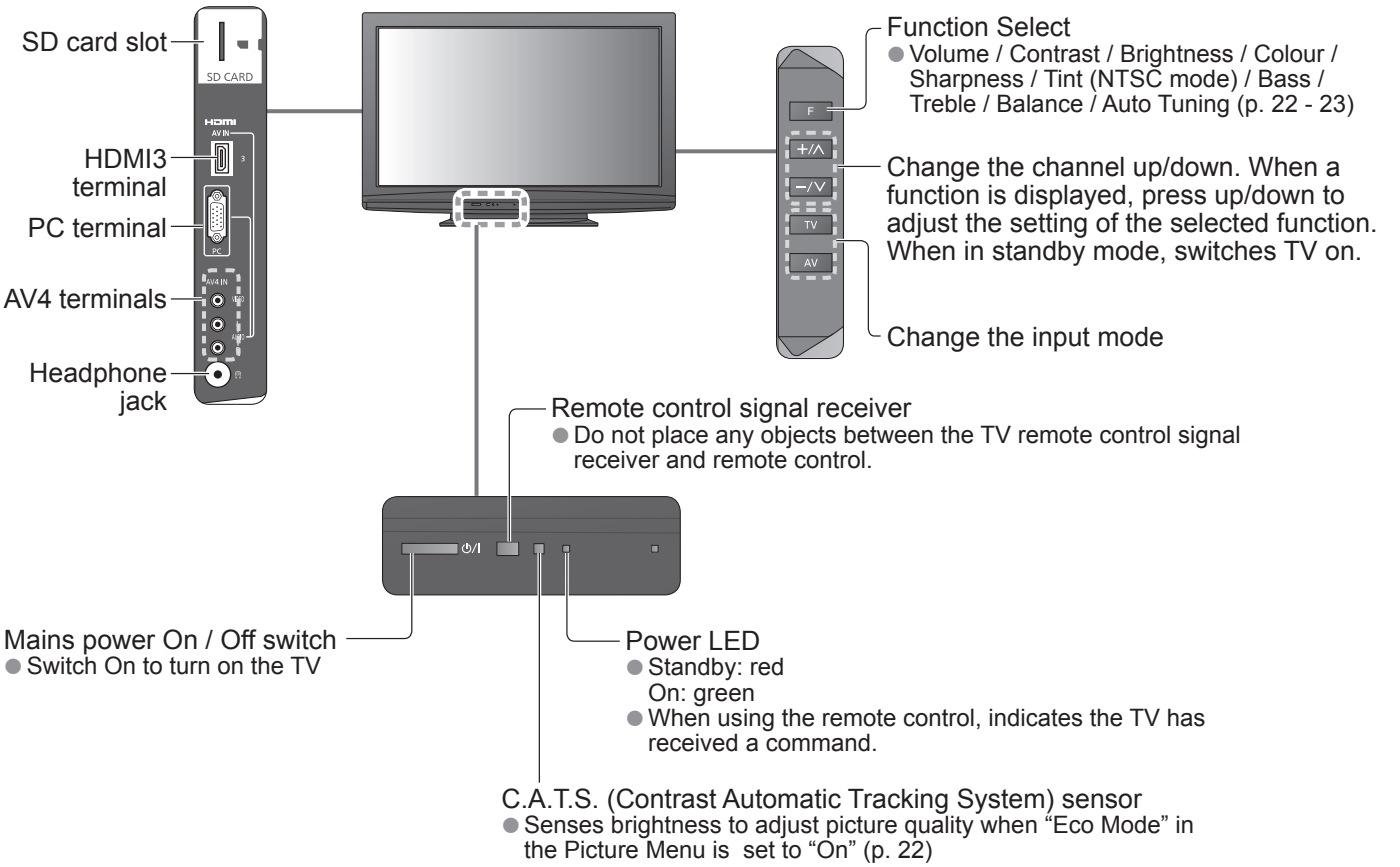
- Take care not to subject the TV's surfaces to detergent. A liquid inside the TV could lead to product failure.
- Take care not to subject surfaces to insect repellent, solvent, thinner, or other volatile substances. This may deteriorate the surface by peeling the paint.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. (Moisture and dust may lead to fire or electrical shock.)

Identifying Controls

TV



Identifying Controls

Remote Control

Standby On / Off switch
- Switches TV On or Off standby

Stereo / Bilingual Sound Selection (p. 43)

Main Menu (p. 20)
- Press to access Picture, Sound and Setup Menus

Aspect (p. 15)
- Changes aspect ratio from Aspect Selection list
- Also possible by pressing this button repeatedly until you reach the desired aspect

VIERA TOOLS (p. 30)
- Displays functions of the linked equipment & SD card

VIERA Link (p. 35)
- Press to access VIERA Link Menu

OK
- Confirms selections and choices
- Press after selecting channel positions to quickly change channel

Option Menu (p. 15)
- Easy setting for viewing and sound options

Teletext (p. 16)
- Switches to teletext mode

Favourite Page (p. 17)
- Calls up the teletext page stored in blue button

Numeric buttons
- Changes channel and teletext pages
- When in Standby mode, switches TV On

Sound Mute
- Switches sound mute On or Off

Volume Up / Down

Input mode selection
- PC – switches to PC input mode (p. 31)
- TV – switches to TV mode (p. 14)
- AV – switches to AV input mode from Input Selection list (p. 18)

Off Timer (p.15)
- Turn the TV off automatically after a fixed period of time

Surround (p. 22)
- Switches surrounding sound setting

Exit
- Returns to the normal viewing screen

SD Card (p. 32)
- Switches to SD Card viewing mode

Cursor buttons
- Makes selections and adjustments

Return
- Returns to the previous menu

Coloured buttons
- Used for the selection, navigation and operation of various function

Hold
- Freeze / unfreeze picture (p. 14)
- Holds the current teletext page (teletext mode) (p. 16)

Index (p. 17)
- Returns to the teletext index page (teletext mode)

Channel Information (p. 14)
- Displays channel information

Channel Up / Down
- Selects channel in sequence

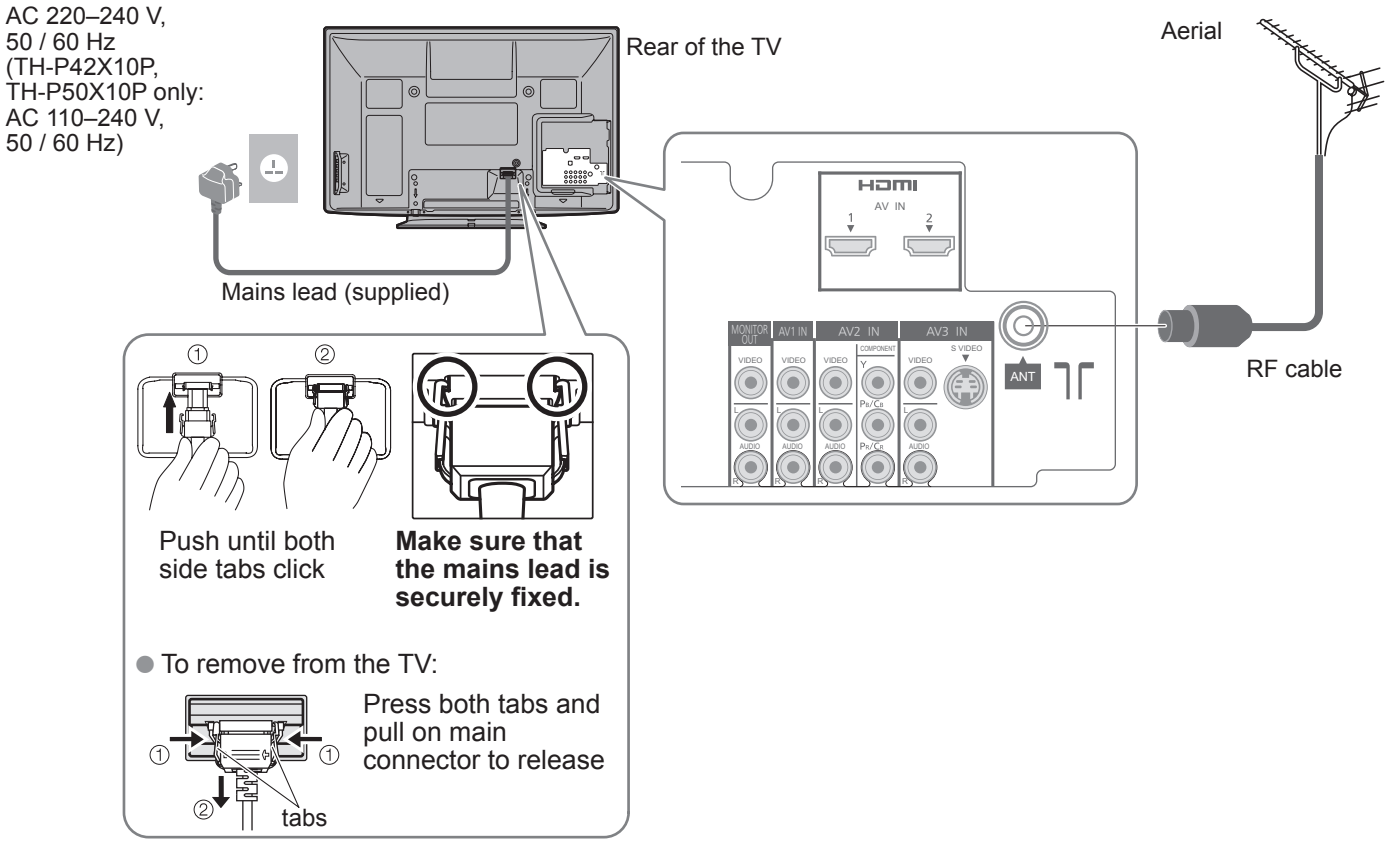
VCR / DVD Panasonic equipment operations (p. 19)

Basic Connection

External equipment and cables shown are not supplied with this TV.
Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads.
When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.

Connecting aerial

TV only

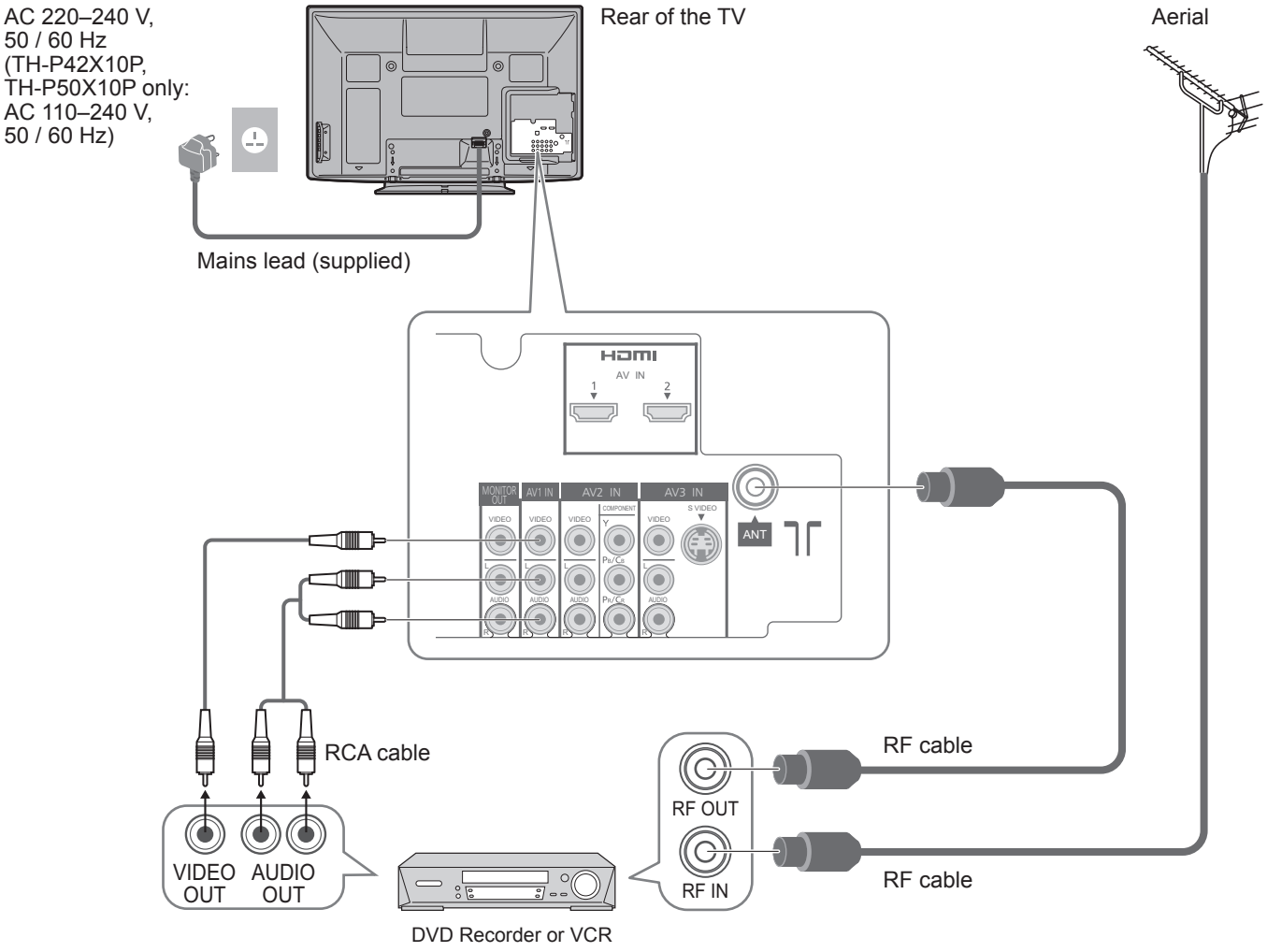


Note

- Mains plug types vary between countries.
- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
- Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.
- VIERA Link connection ➡ p. 35
- Read the manual of the equipment too.

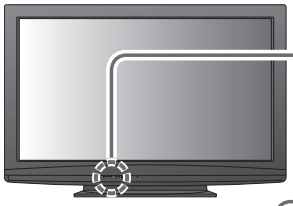
Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR



Auto Tuning

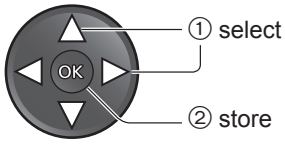
Search and store TV programmes automatically.
These steps are not necessary if the setup has been completed by your local dealer.

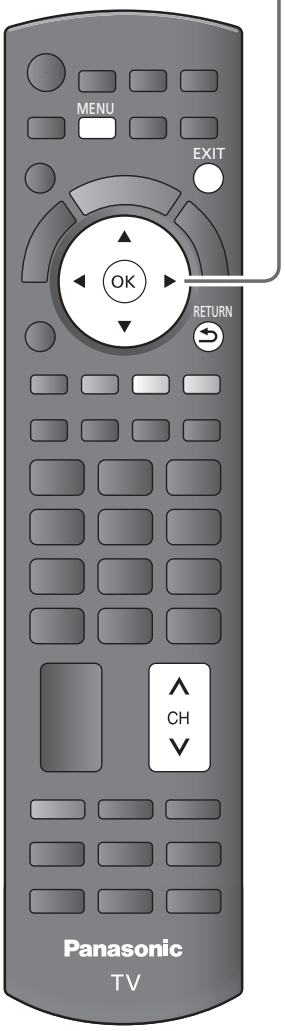


1 Plug the TV into mains socket and switch On

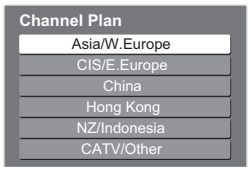
- You can now use the remote control to turn On the TV or switch the TV to standby mode. (Power LED: On)

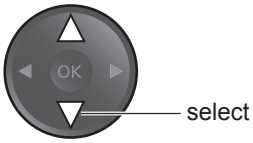
2 Select your language



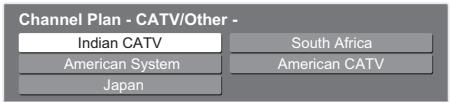


3 Select your area





- Select “Asia/W.Europe” for use in Malaysia, Singapore, Thailand, India, Kuwait, United Arab Emirates, Saudi Arabia, Iran, etc.
  Select “CIS/E.Europe” for CIS Countries, Viet Nam, etc.
- If you select “CATV/Other” and press the OK button, the sub menu is displayed.

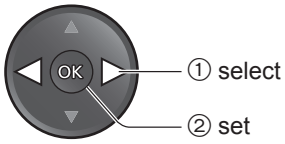


4 Start Auto Tuning

OK

- Auto Tuning will start to search for TV channels and store them.
  The sorted channel order depends upon the TV signal, the broadcasting system and reception conditions.

5 Select the viewing environment

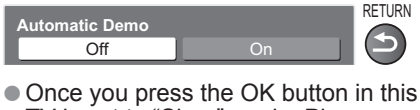


- “Home” is the recommended mode for viewing at home. Select “Home” for optimal picture / power consumption.
  “Shop” is for in-store display.
- Home: “Viewing Mode” in “Picture Menu” is set as “Normal”. (p. 22)
  Shop: “Viewing Mode” in “Picture Menu” is set as “Dynamic”. (p. 22)

Auto Tuning is complete

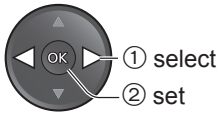
If you select “Shop” by mistake

Return to the “Home” or “Shop” Selection menu



Select “Home”

Auto Tuning is complete



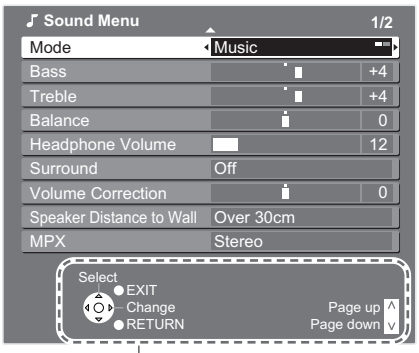
- Once you press the OK button in this menu, the TV is set to “Shop” mode. Please reset all settings to set to “Home” mode. ➡ “Shipping Condition” (p. 29)

Using the On-Screen Displays

Many features available on this TV can be accessed via the On-Screen Display menu.

ON SCREEN HELP Instructions box

(example: Sound Menu)



On-screen operation guide

How to use remote control

MENU — Open the Main Menu

Move the cursor / select the menu

Move the cursor / adjust levels / select from a range of options

CH — Switch pages when there are two or more pages

OK — Access the menu / store settings after adjustments have been made or options have been set

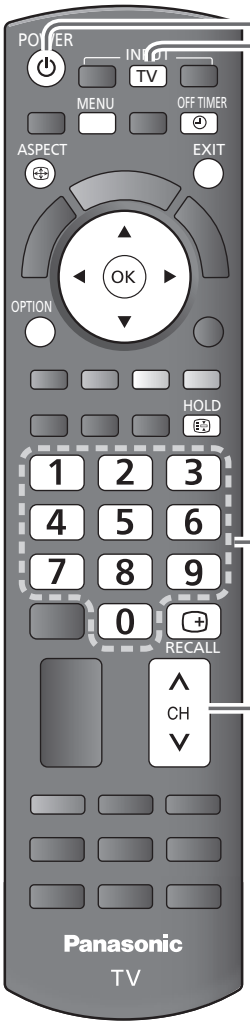
RETURN — Return to the previous menu

EXIT — Exit the menu system and return to the normal viewing screen

Note

- To edit channels ➡ “Editing Channels” (p. 24)
- If tuning has failed ➡ “Tuning Channels” (p. 26)
- To reset all settings ➡ “Shipping Condition” (p. 29)
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

Watching TV



1 Turn power on

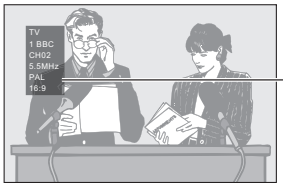
POWER

● Mains power On / Off switch should be On. (p. 8)

2 Select TV mode

TV

● Also possible to select the mode using the TV button on the side panel of the TV. (p. 8)



Information banner appears whenever you select a channel

● For details ➡ below

3 Select a channel

CH ∧ up / ∨ down

or

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

● To select the two or three-digit channel number, e.g. 39
➡ 3 ➡ 9 (in a short time)

● If one or two-digit channel number
➡ OK ➡ quickly changes the channel

Note

● When the TV is switched to standby, there will be a clicking sound after a short delay. This is normal.

Other useful functions

Hold

HOLD

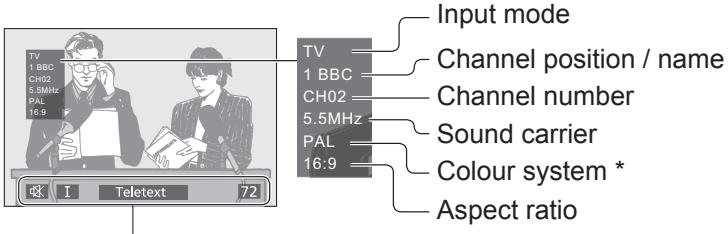
Freeze / unfreeze picture

Display Information banner

RECALL

Display Information banner

● Also appears when changing channels



Sound mute On

CD, I, II, ▽
Audio mode (p.43)

Teletext
(varies depending on the broadcasters)
Teletext service available

1 - 90
Off Timer remaining time

● For settings ➡ p.15

● To set display timeout
➡ “Banner Display Timeout” (p. 23)

● To hide ➡ EXIT

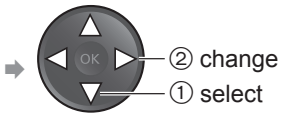
* Colour system is displayed only when it is set to other than “Auto”.
➡ “Colour System” in “Manual Tuning” (p. 27)
➡ “AV Colour System” in Setup Menu (p. 23)

Other useful functions

Display the selectable settings for the current channel

OPTION

Check or change the current channel status instantly



change the settings

Channel Colour Set
Sets colour depth ➡ “Picture Menu” (p.22)

MPX
➡ “Sound Menu” (p.22)

Teletext Character Set
Sets the teletext language ➡ “Setup Menu” (p.23)

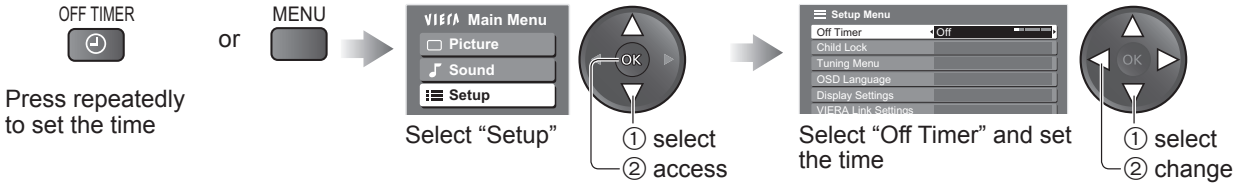
Volume Correction
Adjusts volume of individual channel or input mode

Note

- Also possible to change the settings in Menu list (p. 22–23).

Off Timer

Turn the TV off automatically after a fixed period of time (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)



- To cancel ➡ Set to “0”, set to “Off” or turn the TV off.
- To display the remaining time ➡ Display Information banner (p. 14)
- When the remaining time is within 3 minutes, the remaining time will flash on screen.

Change aspect ratio

ASPECT

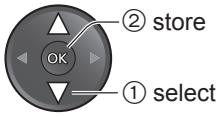
Change the aspect ratio

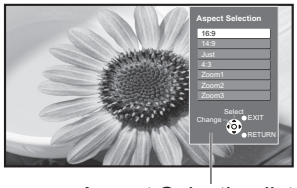
Enjoy viewing the picture at its optimum size and aspect.

Display Aspect Selection List

ASPECT

While the list is displayed, select the mode





Aspect Selection list

- To change the mode using the ASPECT button only

➡ ASPECT Press repeatedly until you reach the desired mode

16:9

Directly displays the image at “16:9” without distortion (anamorphic).

14:9

Displays the image at the standard “14:9” without distortion.

Just

Displays a “4:3” image full-screen. Stretching is only noticeable at the left and right edges.

4:3

Displays the image at the standard “4:3” without distortion.

4:3 Full

Displays a “4:3” image enlarged horizontally to fit the screen.
- HD signal only

Zoom1

Displays a “16:9” letterbox or “4:3” image without distortion.

Zoom2

Displays a “16:9” letterbox (anamorphic) image full-screen without distortion.

Zoom3

Displays a “2.35:1” letterbox (anamorphic) image full-screen without distortion. At “16:9”, displays the image at its maximum (with slight enlargement).

Note

- Only “16:9” and “4:3” are available in PC mode.
- Only “16:9” is available when “Viewing Mode” is set to “Game”.
- Not available in teletext mode.
- Aspect mode can be memorised separately for SD (Standard definition) and HD (High definition) signals. Aspect mode can be memorised separately for each input mode.

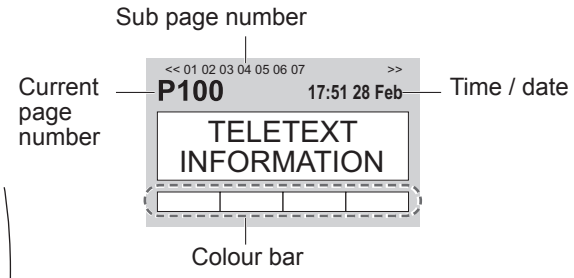
Viewing Teletext

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by the broadcasters.

1 Switch to Teletext

TEXT ● Displays Index (content varies depending on the broadcasters)

F.P. ● Pressing this button while watching TV programme directly accesses to the favourite page stored in “blue”.



2 Select the page (up to page 899)

1 2 3 4 5 6 7 8 9 0 or OK or CH or R G Y B

(Corresponds to the colour bar)

To adjust contrast ➡ MENU (press three times) ➡ OK As white bar is displayed

To return to TV ➡ TEXT **or** EXIT

To change mode ➡ “Teletext” in Setup Menu (p. 23)

What is FASTEXT mode?
In FASTEXT mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

What is TOP mode? (in case of TOP text broadcasting)
TOP is a particular improvement of the standard teletext service that results in an easier search and effective guide.

- Fast overview of the teletext information available
- Easy to use step-by-step selection of the topical subject
- Page status information at the bottom of the screen

Available page up / down ➡ R G

To select among subject blocks ➡ B

To select next subject within the subject block ➡ Y
(After the last subject, it moves to the next subject block.)

What is List mode?
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV’s memory. (“Store frequently viewed pages”, p. 17)

Using teletext conveniently

Hold

HOLD

Stop automatic updating
(If you wish to hold the current page without updating)

To resume ➡ HOLD

Reveal hidden data

MENU ➡ R

Reveal hidden words e.g. quiz page answers

Re-hide ➡ R

Using teletext conveniently

INDEX

INDEX

Return to the main index page

Call up a favourite page

F.P.

View a favourite page stored
- Call up the page stored in “blue”.
- Factory setting is “P103”.

View in multiwindow

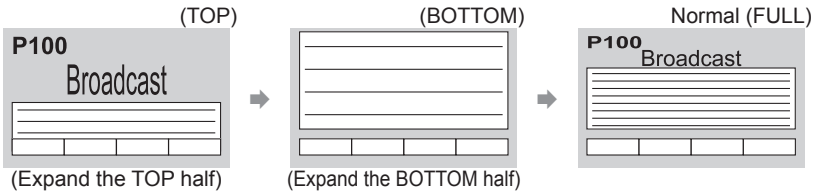
Watch TV and Teletext in two windows at once

MENU (Press twice)

- Operations can be made only in Teletext screen.
- Select Picture and text On or Off

FULL / TOP / BOTTOM

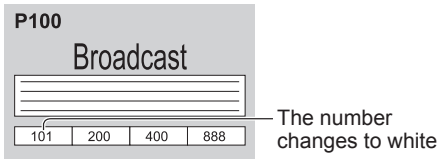
MENU → G



Store frequently viewed pages

Store frequently viewed pages in the colour bar (List mode only)

Corresponding colour button (As page is displayed) → OK press and hold

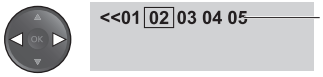


To change stored pages

Colour button you want to change → 1 2 3 4 5 6 7 8 9 0 Enter new page number → OK press and hold

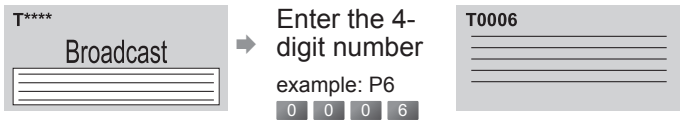
View sub page

View sub page (Only when teletext is more than one page)



To view specific sub page

MENU → B

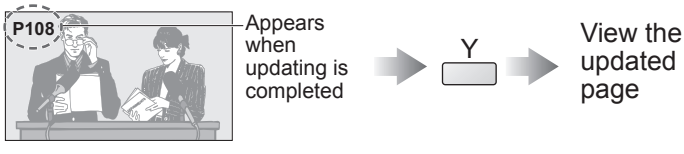


- Sub pages:
  The number of sub pages varies depending on the broadcasters.
  It may take some time for searching, during which time you can watch TV.

Watch TV while waiting for update

View the TV picture while searching for a teletext page
Teletext automatically updates itself when new information becomes available.

MENU → Y

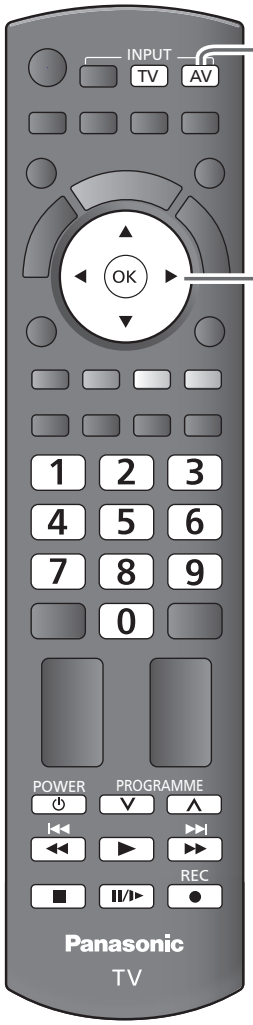


Changes to TV screen temporarily
(You cannot change the channel.)

- The news page provides a function that indicates arrival of latest news (“News Flash”).

Watching Videos and DVDs

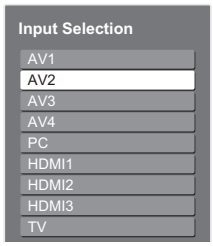
Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input.
● To connect the equipment ➡ p. 10–11
You can operate some functions of selected Panasonic external equipment with this remote control.

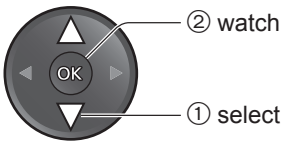


1 Display the Input select menu

AV

2 Select the input mode of the connected equipment

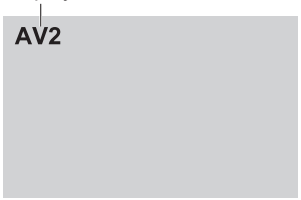




● You can also select the input using the AV button on the remote control or the side panel of the TV.
Press the button repeatedly until the desired input is selected.
● You can label or skip each input modes ➡ “Input Labels” (p. 28)

3 View

Displays the selected mode



Note

● If the external equipment has an aspect adjustment function, set to “16:9”.
For details, see the manual of the equipment or ask your local dealer.

To return to TV

➡ TV

Panasonic equipment connected to the TV can be directly operated with the remote control.

POWER	**Standby** Set to Standby mode / Turn on
▶	**Play** Playback videocassette / DVD
■	**Stop** Stop the operations
⏮ ◀◀	**Rewind / Skip / Search** VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward
⏭ ▶▶	**Fast-forward / Skip / Search** VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward
❚❚/▶	**Pause** Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME ∨ ∧	**Channel Up / Down** Select channel
REC ●	**Record** Start recording

How to change the code for each equipment
Each type of Panasonic equipment has its own remote control code.
Please change the code for each equipment you want to operate.

Press and hold POWER during the following operations

Enter the appropriate code
See table below
1 2 3 / 4 5 6 / 7 8 9 / 0 ➡ Press ■

Type of equipment	Code
DVD Recorder / DVD Player	70 (default)
Player theatre / Blu-ray Disc theatre	71
VCR	72
VIERA Link compatible equipments ➡ “VIERA Link Control” (p. 38)	73

Note
- Confirm if the remote control works correctly after changing the code.
- The codes will be reset to default values if batteries are replaced.
- Some operations may not be possible on some equipment models.

How to Use Menu Functions

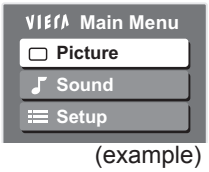
Various menus allow you to make settings for the picture, sound, and other functions.

1 Display the menu

MENU

● Displays the functions that can be set (varies according to the input signal)

2 Select the menu

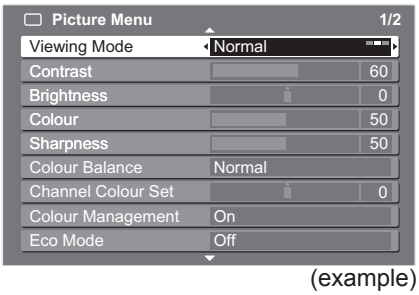


(example)

② access

① select

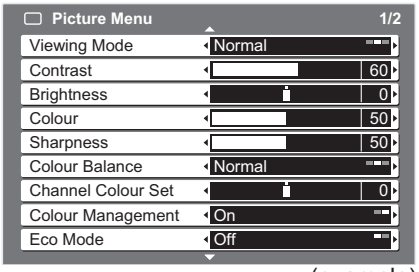
3 Select the item



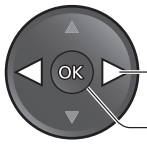
(example)

select

4 Adjust or select



(example)



① change

② store or access (Required by some functions)

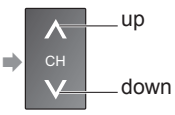
To return to TV at any time

EXIT

To return to the previous screen

RETURN

To change menu pages

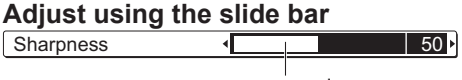


Choose from among alternatives

Number and positions of alternatives

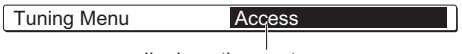
changed

Adjust using the slide bar



moved

Go to the next screen



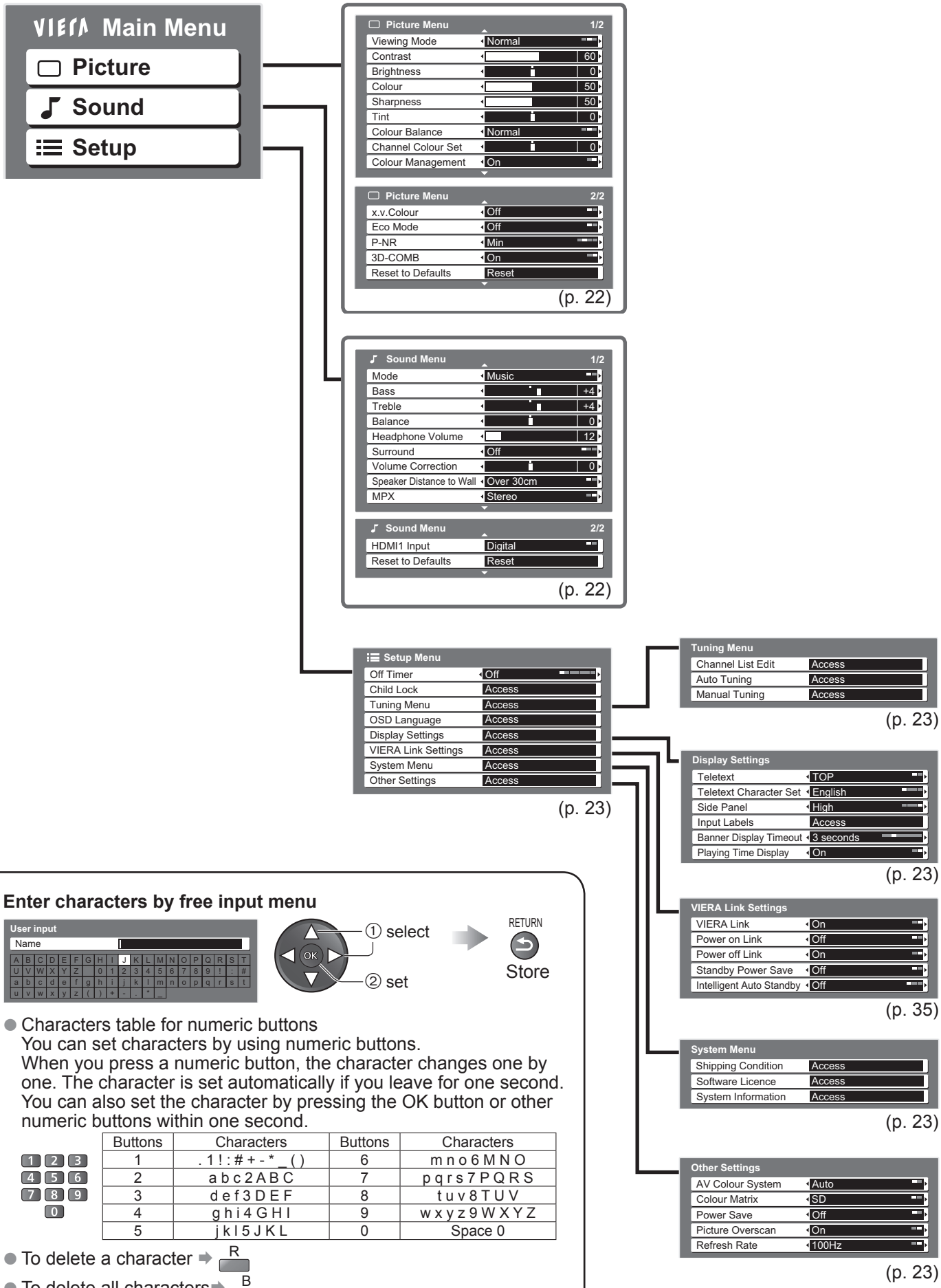
displays the next screen

To reset the settings

- To reset the picture settings only
  ➡ "Reset to Defaults" in Picture Menu (p. 22)
- To reset the sound settings only
  ➡ "Reset to Defaults" in Sound Menu (p. 22)
- To reset all settings
  ➡ "Shipping Condition" in Setup Menu (p. 29)

Overview

- Depending on the received signals, available items are varied.



Enter characters by free input menu

- Characters table for numeric buttons
  You can set characters by using numeric buttons.
  When you press a numeric button, the character changes one by one. The character is set automatically if you leave for one second. You can also set the character by pressing the OK button or other numeric buttons within one second.

Buttons	Characters	Buttons	Characters
1	. 1 ! : # + - * _ ( )	6	m n o 6 M N O
2	a b c 2 A B C	7	p q r s 7 P Q R S
3	d e f 3 D E F	8	t u v 8 T U V
4	g h i 4 G H I	9	w x y z 9 W X Y Z
5	j k l 5 J K L	0	Space 0

- To delete a character ➡ R
- To delete all characters ➡ B

How to Use Menu Functions

Menu List

Menu	Item	Adjustments / Configurations (alternatives)
Picture	**Viewing Mode**	Basic picture mode **(Dynamic / Normal / Cinema / Game)** Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room Normal : Recommended for viewing under normal ambient room lighting conditions Cinema : For watching movies in a darkened room producing a cinema-like picture Game : Game playing time is displayed only when connecting a game equipment ● Set for each input signal
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference
	Tint	With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste ● For NTSC or Component / HDMI input signal reception only
	Colour Balance	Allows you to set the overall colour tone of the picture **(Cool / Normal / Warm)**
	Channel Colour Set	Colour density varying between broadcast channels can be adjusted to three levels for each reception channel ● Select the channel you want to adjust and set this function
	Colour Management	Automatically adjusts colours to vivid ones **(Off / On)** ● Not valid on PC signal
	x.v.Colour	Increases the colour gradations **(Off / Auto)** This is effective when watching HD moving pictures from an external equipment or an SD card. ● For HDMI or “Movie View” mode (p. 34) only
	Eco Mode	Adjusts picture settings automatically dependent on ambient lighting conditions **(Off / On)**
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture **(Off / Min / Mid / Max)** ● Not valid on PC signal
	3D-COMB	Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to “On” to display sharper and more accurate colours **(Off / On)** ● For PAL or NTSC signal reception only ● Not valid on S-Video, Component, PC, HDMI and SD Card
	Reset to Defaults	Press the OK button to reset the present Picture Menu to the default settings
Sound	**Mode**	Basic sound mode **(Music / Speech)** ● Set for each input signal
	Bass	Increases or decreases level to enhance or minimise lower, deeper sound output
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output
	Balance	Adjusts volume level of right and left speakers
	Headphone Volume	Adjusts the volume of the headphones
	Surround	Surround sound settings **(Off / V-Audio / V-Audio Surround)** V-Audio: Provides a dynamic enhancer to simulate improved spatial effects V-Audio Surround: Provides a dynamic enhancer of width and depth to simulate improved spatial effects ● Switching is also possible by the Surround button on the remote control (p. 9).
	Volume Correction	Adjusts volume of individual channel or input mode
	Speaker Distance to Wall	Adjusts the low frequency sound **(Over 30cm / Up to 30cm)** ● Over 30cm: Recommended when the back space between the TV and wall is over 30 cm. ● Up to 30cm: Recommended when the back space between the TV and wall is within 30 cm.
	MPX	Selects stereo / monaural **(Stereo / Mono)** (p. 43) ● Normally: Stereo ● Stereo signal cannot be received: Mono ● M1 / M2: Available while mono signal is transmitted
	HDMI1 / 3 Input	Select to fit the input signal **(Digital / Analogue)** (p. 43) Digital: HDMI cable connection Analogue: HDMI-DVI adapter cable connection ● HDMI input mode only ● HDMI2 terminal is for digital signal only ● No setting for HDMI2 available
	Reset to Defaults	Press the OK button to reset the present Sound Menu to the default settings

Menu	Item		Adjustments / Configurations (alternatives)
Setup	**Off Timer**		Sets the time the TV automatically turns Off **(Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)** (p. 15)
	Child Lock		Locks a channel / AV input to prevent access to it (p. 25)
	Tuning Menu	**Channel List Edit**	Skips the unwanted channels or edits channels (p. 24)
		Auto Tuning	Sets all channels automatically (p. 27)
		Manual Tuning	Sets the channels manually (p. 27)
	OSD Language		Changes language for on-screen displays
	Display Settings	**Teletext**	Teletext display mode **(TOP (FASTEXT) / List)** (p. 16)
		Teletext Character Set	Select teletext language **(English / CIS / E.Europe / Persian)**
		Side Panel	Increases the brightness of the side panel **(Off / Low / Mid / High)** ● The recommended setting is “High” to prevent panel “image retention”
		Input Labels	Labels or skips each input terminals (p. 28)
		Banner Display Timeout	Sets how long the information banner (p. 14) stays on screen from 0 (No display) to 10 sec. in 1-sec. increments
		Playing Time Display	Displays the length of time for playing game in every 30 minutes **(Off / On)** ● This function is available when “Viewing Mode” is set to “Game”.
	VIERA Link Settings	**VIERA Link**	Sets to use VIERA Link functions **(Off / On)** (p. 35) ● Other functions in “VIERA Link Settings” are available when “VIERA Link” is set to “On”.
		Power on Link	Sets to use Power on Link function **(Off / On)** (p. 36)
		Power off Link	Sets to use Power off Link function **(Off / On)** (p. 36)
		Standby Power Save	Controls the power consumption in Standby mode of the connected equipment to reduce the consumption **(Off / On)** (p. 36)
		Intelligent Auto Standby	Makes unwatched or unused connected equipment go into Standby mode or reduce the power consumption **(Off / On (With reminder) / On (No reminder))** (p. 36)
	System Menu	**Shipping Condition**	Resets all settings, for example, when moving house (p. 29)
		Software Licence	Displays the software licence information
		System Information	Displays the system information of this TV
	Other Settings	**AV Colour System**	Selects optional colour system based on video signals in AV mode **(Auto / PAL / SECAM / M.NTSC / NTSC)**
		Colour Matrix	Available only with 480p or 576p input signals in a natural colour from digital equipment connected to AV2 COMPONENT or HDMI1 / HDMI2 / HDMI3 terminals Select SD or HD to adjust suitable colour parameters for SD (standard definition) or HD (high definition) ● SD: Input signal is a normal TV system ● HD: Input signal is a high definition system
		Power Save	Reduces brightness of picture to economise on power consumption **(Off / On)**
		Picture Overscan	Selects the screen area displaying the image **(Off / On)** On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. ● Set to “On” if noise is generated on the edge of the image. ● This function is available when aspect is set to “16:9”. ● This function can be memorised separately for SD (Standard definition) and HD (High definition) signals.
		Refresh Rate	Changes the image processing of the panel (depending on the input signal) **(50Hz / 100Hz)** ● Set to “100Hz” normally

● A different menu will be displayed while PC or SD Card is used. (p. 31, 33)
● Only available items can be selected.

Editing Channels

You can change channel names and positions or hide unwanted channels.

To return to TV

EXIT

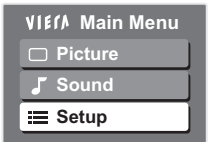
1 Select TV mode

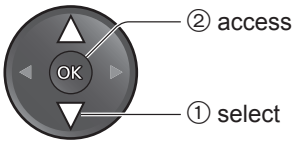
TV

2 Display the menu

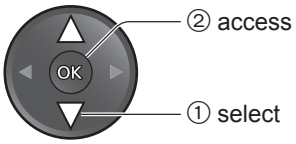
MENU

3 Select “Setup”

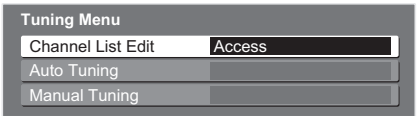


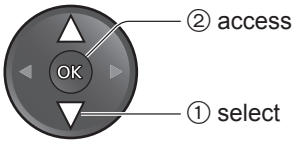


4 Select “Tuning Menu”



5 Select “Channel List Edit”



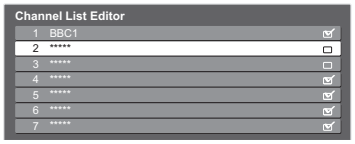


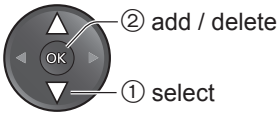
6 Set

Skip unwanted channels — Channel List Edit

You can hide unwanted channels. The hidden channels cannot be displayed except in this function.

Select a channel and add / delete





☑: add
☐: delete (skip)

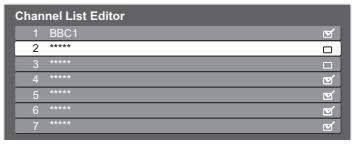
● To retune each channel (Manual Tuning) (p. 27)

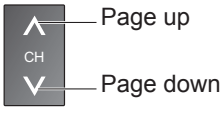
R

Edit channels (Change name, Move) — Channel List Edit

You can change the channel name and channel position.
● If a VCR is connected only with the RF cable, edit “VCR”.

① Select a channel to edit



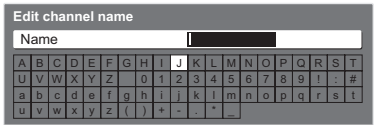


② Edit

To change the name displayed when selecting channels

B

Select “Rename”



Set characters (max. 5 characters)
● For details ➡ p. 21

RETURN

Store

To move channel position

G

Select new position

G

Store

Control Channel Audience

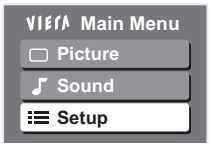
You can lock specific channels / AV input terminals and control who watches them.
When the locked channel / input is selected, a message appears; by entering the PIN number, you can watch it.

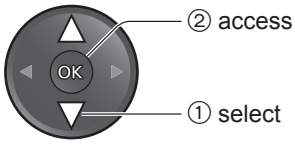
To return to TV
EXIT ➡

1 Display the menu

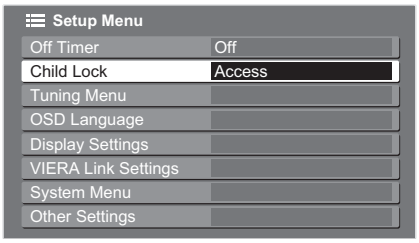
MENU

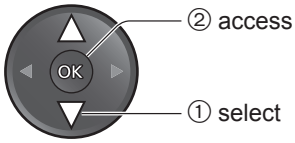
2 Select “Setup”





3 Select “Child Lock”





4 Set

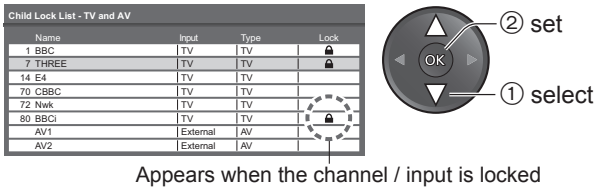
Control channel audience — Child Lock

① Enter the PIN number (4 digits)

- Enter the PIN number twice at first setting.
- Make a note of the PIN number in case you forget it.

② Select “Child Lock List”

③ Select the channel / input to be locked



Appears when the channel / input is locked

- To cancel
  ➡ Select the locked channel / input ➡ OK
- To lock all ➡ G
- To cancel all locks ➡ Y
- To jump to the next block of channels ➡ R

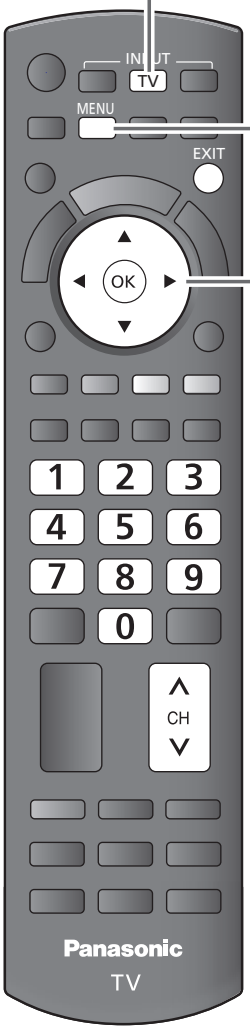
To change the PIN number
Select “Change PIN” in “Child Lock” and enter a new PIN number twice.

Note

- Setting “Shipping Condition” (p. 29) erases the PIN number and all settings.

Tuning Channels

You can retune all the TV channels when moving house or search for new channels which may have recently started broadcasting.



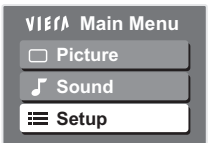
1 Select TV mode

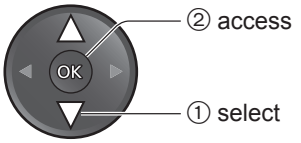
TV

2 Display the menu

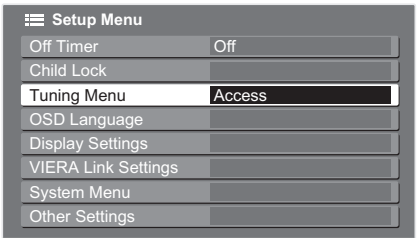
MENU

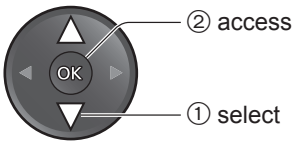
3 Select “Setup”



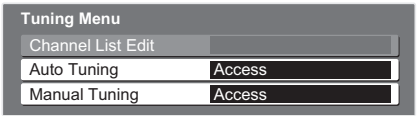


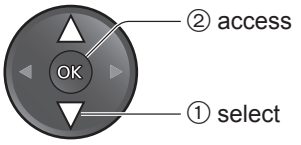
4 Select “Tuning Menu”





5 Select a function





6 Set

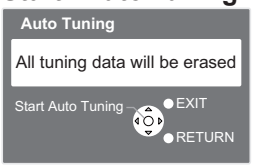
To return to TV

EXIT

Set all channels automatically **Auto Tuning**

Automatically retune all channels received in the area.

Start "Auto Tuning"

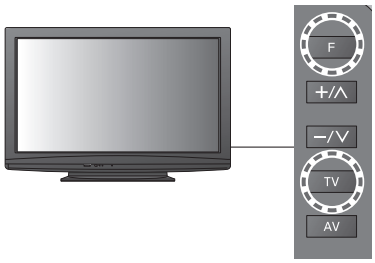


OK

Settings are made automatically

- All the previous tuning settings are erased.
- When the operation is completed, the channel at channel position "1" will be displayed.
- Search begins in the order from the lower channels to the higher channels. Channels received during this process are added to the list. (p. 24)
- If tuning has not been done completely ➡ "Manual Tuning" (below)

For Auto Tuning, using the buttons on the side panel of the TV (p. 8)



① F Press repeatedly until "Auto Tuning" appears
② TV Access "Auto Tuning"
③ TV Start "Auto Tuning"
- To return to TV ➡ F

Set channels manually **Manual Tuning**

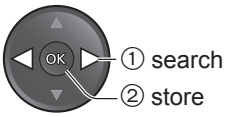
Fine Tuning
Use to make small adjustments to the tuning of an individual channel (affected by weather conditions, etc.)

Manual Tuning
Set channel manually after Auto Tuning.
- Set Sound System and Colour System, and then perform this function. Normally set Colour System "Auto".
- If a VCR is connected only with the RF cable, select channel position "0".

Select a channel position

Select a channel

Search and store



Input Labels

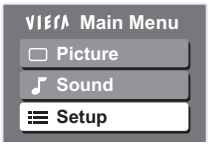
For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment.

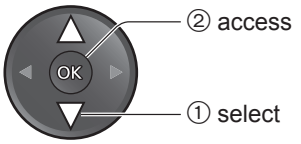
● To select the input mode ➡ p. 18

1 Display the menu

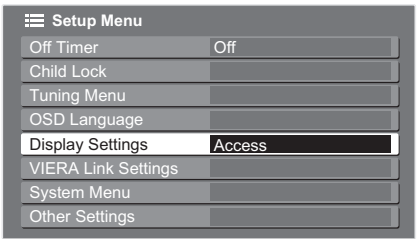
MENU

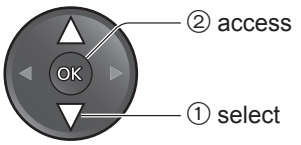
2 Select “Setup”



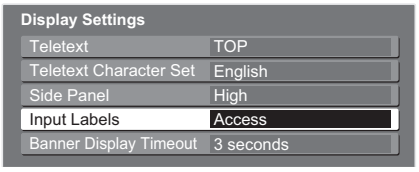


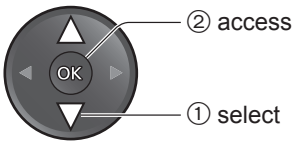
3 Select “Display Settings”



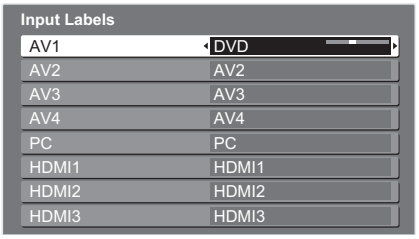


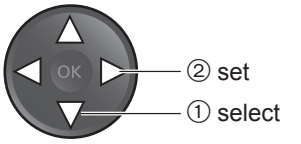
4 Select “Input Labels”





5 Select an input terminal and set





The labels you set will be displayed in “Input Selection” menu (p. 18) or banner.

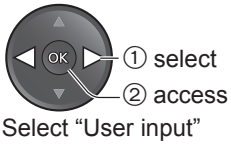
● If “Skip” is selected, you cannot select the mode.

To return to TV

EXIT

User input

You can name each input terminals freely.



Select “User input”

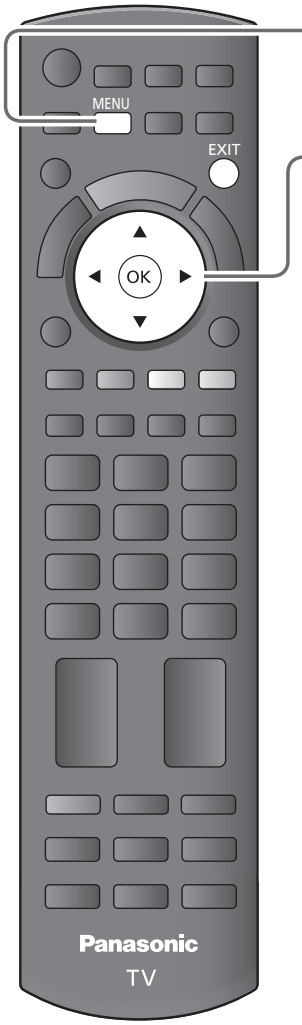
Set characters (max. 10 characters)

● For details ➡ p. 21

Store

Restore Settings

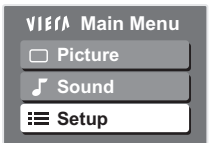
Resets the TV to its original condition, i.e. no channels tuned in.
All settings (channels, picture, sound quality, etc.) are reset.

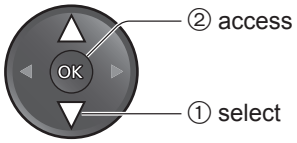


1 Display the menu

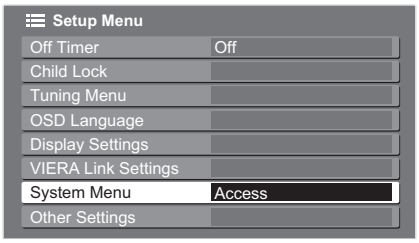
MENU

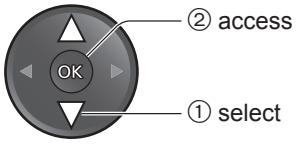
2 Select “Setup”



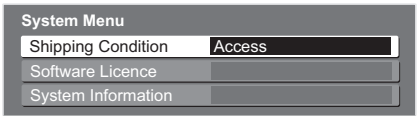


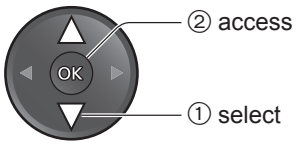
3 Select “System Menu”





4 Select “Shipping Condition”





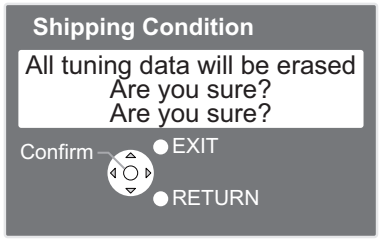
5 Set

To return to TV

EXIT

Restore Settings — Shipping Condition

① Check the message and reset



OK

② Follow the on-screen instructions

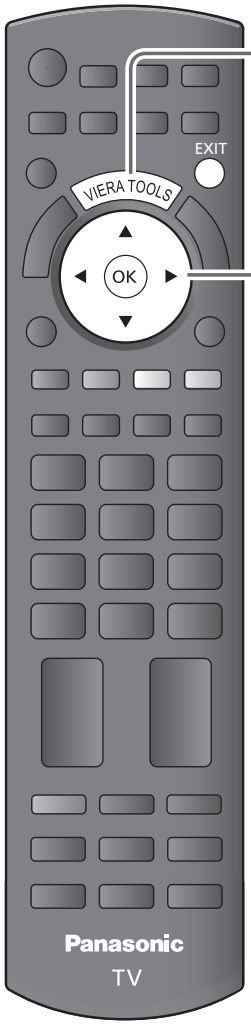
- “Auto Tuning” will automatically start when Mains power On / Off switch is next turned On. (p. 12)

To retune TV channels only, e.g. after moving house

➡ “Auto Tuning” (p. 27)

VIERA Tools

With VIERA Tools, you can directly access to some of the useful functions of connected equipment or SD card.



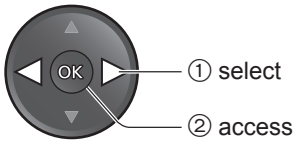
To return to TV

EXIT or VIERA TOOLS

1 Display VIERA Tools Menu

VIERA TOOLS

2 Select a feature



3 Follow the operation of each feature

VIERA Link Control

VIERA Link Control (p. 38)
The connected device can be operated with the VIERA remote control.
When multiple devices are connected, an indicator appears below the icon so that one device can be selected.

Pause Live TV

Pause Live TV (p. 37)
A live TV programme can be paused and resumed later.

Direct TV Rec

Direct TV Rec (p. 37)
What is on TV can be recorded immediately.

Speaker Selection

Speaker Control (p. 39)
Theatre speaker can be set.

Slideshow

SD card slideshow (p. 33)
Photo slideshow will start.

Photos

SD card photo view (p. 32)
Photo folders are displayed.

Movies

SD card movie view (p. 34)
The title list for SD movie image is displayed.

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV.
You can also listen to PC sound with the audio cable connected.
● To connect PC ➡ p. 40

1 Select PC mode

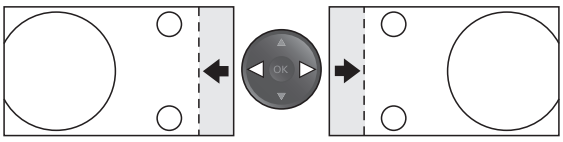
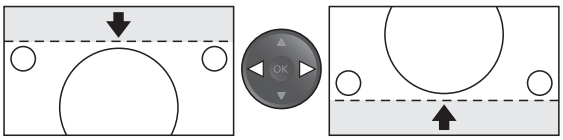
PC

● Corresponding signals ➡ p. 44
● If “H-freq.” or “V-freq.” is shown in red, the signals may not be supported.

To return to TV

➡ TV

PC menu setting (changed as desired)

Menu	Item		Adjustments / Configurations (options)
Picture	Advanced PC Settings	W/B High R	White balance of bright red area
		W/B High B	White balance of bright blue area
		W/B Low R	White balance of dark red area
		W/B Low B	White balance of dark blue area
		Gamma	**(S Curve / 2.0 / 2.2 / 2.5)**
		Reset to Defaults	Press the OK button to reset to the default Picture settings
Setup	PC Setup	Input Resolution	Switches to a wide view ● VGA (640 × 480 / 852 × 480 pixels), XGA (1,024 × 768 / 1,280 × 768 / 1,366 × 768 pixels) ● Options change depending on signals
		Clock	Set to the minimum level if noise occurs
		H-pos	Adjusts horizontal position 
		V-pos	Adjusts vertical position 
		Clock Phase	Eliminates flicker and distortion ● Adjust after Clock adjustment ● Set to the minimum level if noise occurs
		Sync	PC sync signal type **(H & V / On Green)** ● H & V : Horizontal and Vertical sync from your PC (Most common sync format) On Green : Sync on Green sync from your PC
		Reset to Defaults	Press the OK button to reset to the default Setup settings

① and ② repeatedly adjusted

● Other items ➡ p. 22 and p. 23

Viewing from SD Card
(VIERA IMAGE VIEWER)

Photo View: Still images recorded by digital cameras will be displayed.
Movie View: Moving pictures recorded by digital video cameras will be played back.

- During the operation, no signals are output from any of the AV terminals. But the sound in Movie View can be output from AUDIO OUT terminals.
- "Date" shows the date on which the recording was made by the digital camera or digital video camera. It is shown with asterisks when the file has no record of the date.
- For details on SD Cards ➡ p. 44

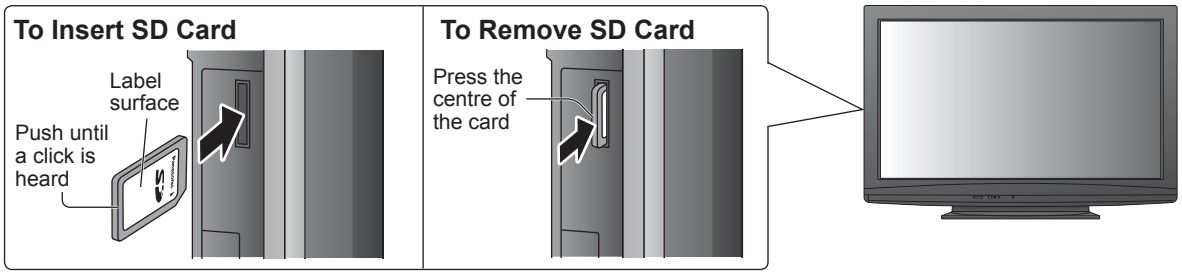
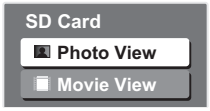
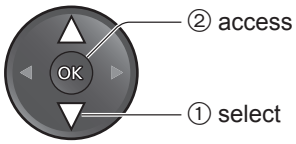


Photo View

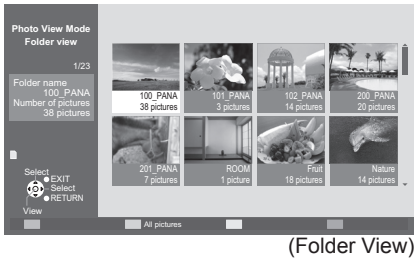
1 Insert the SD Card

2 Select "Photo View"

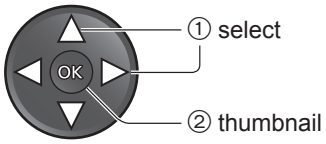




3 Select a folder to display the thumbnail

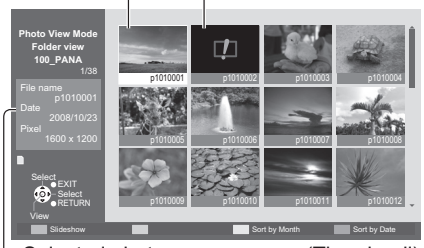


(Folder View)



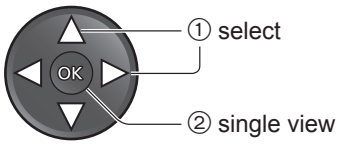
- The files which are not in a folder will be collected to the folder named "/".
- To display all the photos ➡ p. 33

4 Select a photo from the thumbnail to be viewed



Selected photo information is displayed

(Thumbnail)

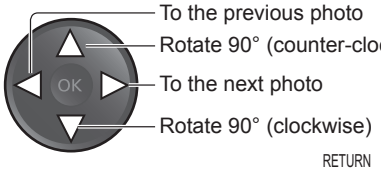


- Slideshow ➡ p. 33
- To sort by date or month recorded ➡ p. 33

Operation guide (Single View)

Displayed one at a time

- To display / hide the operation guide ➡ RECALL



- To return to thumbnail ➡ RETURN

To return to TV

EXIT ➡ or SD CARD

To return to the previous screen

RETURN ➡

Slideshow

Start Slideshow (operate in step 4)

Select the photo for the first view

Start Slideshow

R

● To pause ➡

● To return to Single view ➡ G

Note

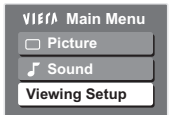
● Slideshow is done within the thumbnail.

Slideshow settings (operate in Photo View Mode)

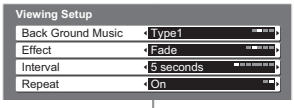
Display the menu

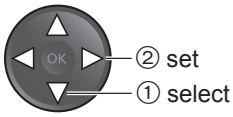
MENU

Select "Viewing Setup"



Select the items and set





● Other items ➡ p. 22–23

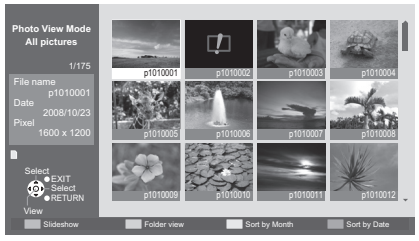
Menu	Item	Adjustments / Configurations (alternatives)
Viewing Setup	**Back Ground Music**	Selects the back ground music during the slideshow **(Off / Type1 / Type2 / Type3)**
	Effect	Selects the effect for switching the photo during the slideshow **(Off / Fade / Slide / Dissolve / Random)** Fade : The next photo fades in gradually Slide : The next photo slides and appears from the left side Dissolve : The photo is replaced by an indefinite block unit Random : Selects each effect at random
	Interval	Select slideshow interval **(5 / 10 / 15 / 30 / 60 / 90 / 120 seconds)**
	Repeat	Slideshow repeat **(Off / On)**

To display all the photos

Display the thumbnail of all the photos in SD Card.

(Folder view)

G

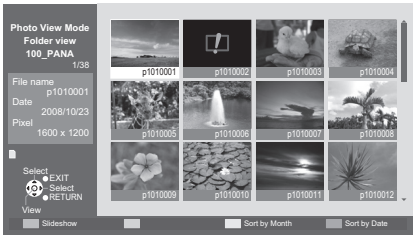


(Thumbnail - All pictures)

To sort by date or month recorded

Display the list of groups sorted by the same date or the same month.

● The group of the photos without record of the date is shown as "Unknown".



(Thumbnail)

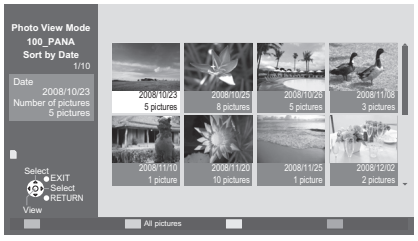
Y

G

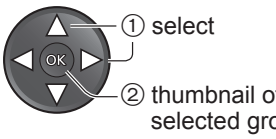
(Sort by Month)

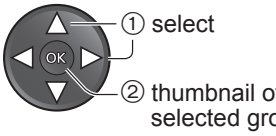
B

G



(Sort by Date)



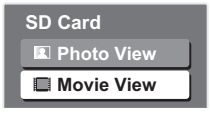


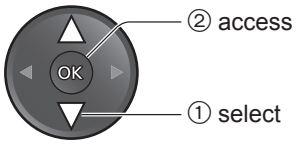
Viewing from SD Card
(VIERA IMAGE VIEWER)

Movie View

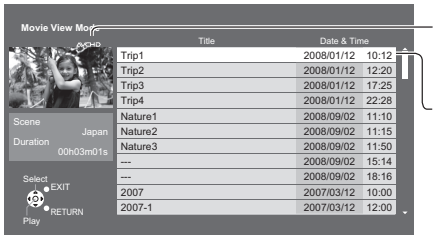
1 Insert the SD Card

2 Select “Movie View”



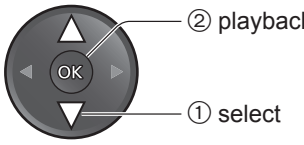


3 Select a file to be viewed



File format
Only AVCHD or MPEG2 is supported.
● For details ➡ p. 44

Selected movie



(List)

Operation guide

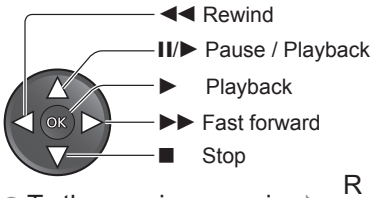
(Playback)

Information banner ➡ RECALL

Playback will start

● To display the operation guide
➡ R G Y B or OK

● To hide the operation guide ➡ RETURN



● To return to list ➡ OK (stop)

● To change aspect ratio
(only for the 4:3 movie content)
➡ ASPECT

● To the previous movie ➡ R

● To the next movie ➡ G

To return to TV

➡ EXIT or SD CARD

To return to the previous screen

➡ RETURN

VIERA Link "HDAVI Control™"*

* Enjoy additional HDMI interoperability with Panasonic products which have "HDAVI Control" function.
This TV supports "HDAVI Control 4" function.
Connections to the equipment (DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI cable allow you to interface them automatically.
These features are limited to models incorporating "HDAVI Control" and "VIERA Link".

- Some functions are not available depending on the equipment's version of HDAVI Control. Please confirm the connected equipment's version of HDAVI Control.
- 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 individual manuals for the equipments. About applicable Panasonic equipment, consult your local Panasonic dealer.

VIERA Link features and connections

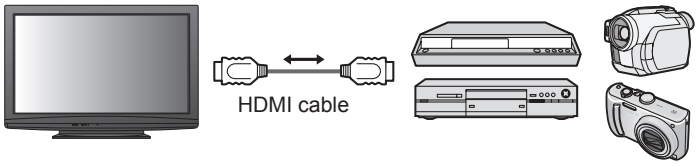
VIERA Link

Features \ Connected equipment with VIERA Link function	DIGA Recorder*1	DVD Player / Blu-ray Disc Player*1	HD Video Camera / LUMIX Camera*1	Player theatre*2	Blu-ray Disc theatre*2	Amplifier*2
Channel download	○*4	–	–	–	–	–
Easy playback	○	○	○	○*7	○*7	–
Power on link	○	○	○	○	○	–
Power off link	○	○	○	○	○	○
Reduce unnecessary power consumption in standby	○*5	○*5	–	–	○*5	–
Auto standby for unnecessary equipment	○*3	○*3	–	○*3 *8	○*3 *8	○*3
Pause Live TV programme	○*4 *6	–	–	–	–	–
Direct TV Recording	○*4	–	–	–	–	–
Control the menu of the connected equipment by VIERA remote control	○*3	○*3	○*3	○*3	○*3	–
Speaker control	–	–	–	○	○	○

*1: HDMI Connection only
*2: HDMI and Audio out connections
*3: available with the equipment which has "HDAVI Control 2 or later" function
*4: available with the equipment which has "HDAVI Control 3 or later" function
*5: available with the equipment which has "HDAVI Control 4" function
*6: available with DIGA Recorder which has HDD
*7: while playing back a disc
*8: except for watching a disc

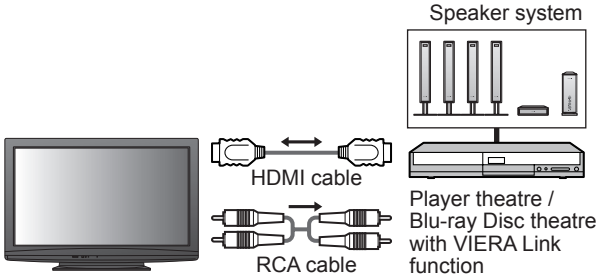
Connection

- To use DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera

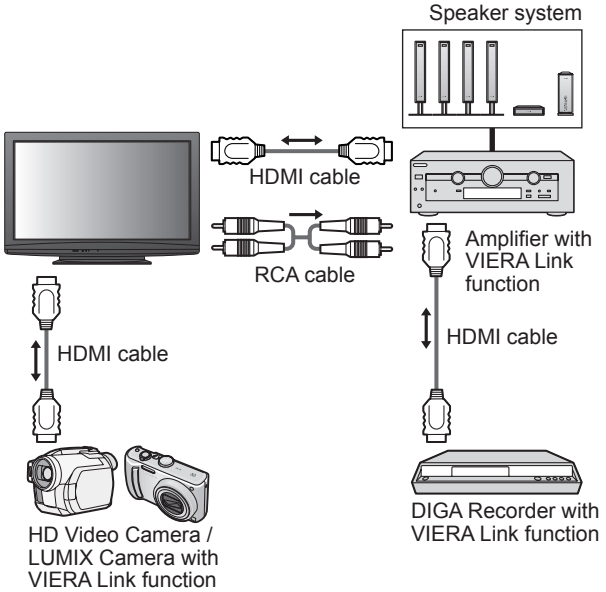


DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function

- To use Player theatre / Blu-ray Disc theatre:



- To use Amplifier:



VIERA Link "HDAVI Control™"

Note

- This function may not work properly depending on the connected equipment.
- For DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function, connect to HDMI1, HDMI2 or HDMI3 terminal via an HDMI cable.
- For Player theatre / Blu-ray Disc theatre / Amplifier, connect to HDMI1, HDMI2 or HDMI3 terminal via an HDMI cable and/or RCA cable for audio output from the TV.
- Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilised. Recommended Panasonic's HDMI cable part number:
  • RP-CDHG10 (1.0 m) • RP-CDHG15 (1.5 m) • RP-CDHG20 (2.0 m) • RP-CDHG30 (3.0 m) • RP-CDHG50 (5.0 m)

Preparations

- Connect the equipment supporting VIERA Link.
- Set up the connected equipment. Read the manual of the equipment.
- For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.
- Set VIERA Link On in Setup Menu ➡ "VIERA Link Settings" (p. 23)
- Set up the TV ➡ **After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 18), and make sure that an image is displayed correctly.**
  This setup should be done each time when the following conditions occur:
  • for the first time / • when adding or reconnecting equipment / • when changing setup

Features available

Channel download

Channel setting can be downloaded to the recorder.

Easy playback

Automatic input switching – When the connected equipment is operated, input mode is switched automatically.

Power on link

Set Power on Link "On" in Setup Menu to use this function ➡ "Power on Link" (p. 23)
When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when the TV is in Standby mode.)

Power off link

Set Power off Link "On" in Setup Menu to use this function ➡ "Power off Link" (p. 23)
When the TV is set to Standby mode, the connected equipment is also automatically set to Standby.

- This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

Reduce unnecessary power consumption in standby — Standby Power Save

Set Standby Power Save "On" in the Setup Menu to use this function ➡ "Standby Power Save" (p. 23)
The power consumption in Standby mode of the connected equipment is controlled higher or lower in synchronization with the TV On / Off state to reduce the consumption.
When the TV is set to Standby mode, the connected equipment is automatically set to Standby and the power consumption in Standby mode of the connected equipment is automatically minimized.
When the TV is turned on, the connected equipment is still in Standby mode, but the power consumption is increased to make startup time early.

- This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption.

Auto standby for unnecessary equipment — Intelligent Auto Standby

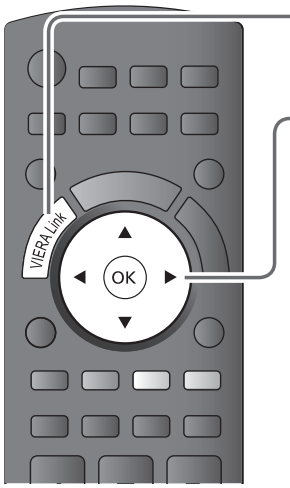
Set Intelligent Auto Standby "On (With reminder)" or "On (No reminder)" in the Setup Menu to use this function ➡ "Intelligent Auto Standby" (p. 23)
When the TV is on, the connected equipments not in use go into Standby mode automatically to reduce the power consumption.

- If you select "On (With reminder)", the on screen message will be displayed to be noticed before working this function.

Features available (Using VIERA Link Menu)

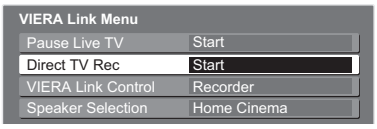
Direct TV Recording - What you see is What you record — Direct TV Rec

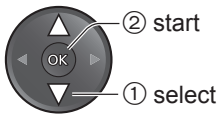
Recording the current programme in DIGA Recorder immediately.
- If you connect several recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder to the TV's lower HDMI terminal number.
- If you cannot operate, check the settings and the equipment ➡ "VIERA Link features and connections" (p. 35)



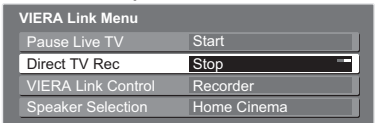
① Display "VIERA Link Menu"

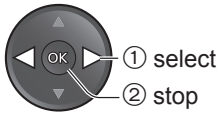
② Select "Direct TV Rec" and start recording





To stop recording
Select "Stop" in "Direct TV Rec" and stop

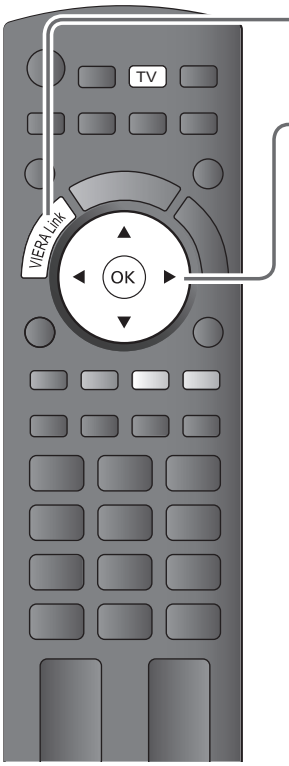




Pause Live TV programme — Pause Live TV

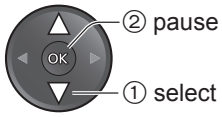
You can pause the live TV programme and resume later.
Live TV programme will be recorded on HDD of the connected DIGA Recorder.
- This function is available with DIGA Recorder which has HDD.
- If you connect several recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder which has HDD to the TV's lower HDMI terminal number.
- If you cannot operate, check the settings and the equipment ➡ "VIERA Link features and connections" (p. 35)

Access and pause the live TV programme



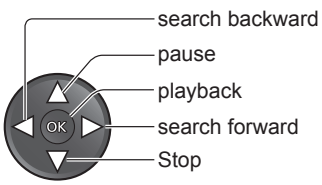
① Display "VIERA Link Menu"

② Select "Pause Live TV" and pause

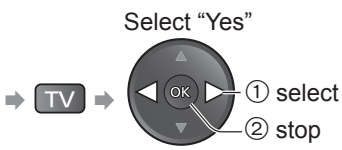


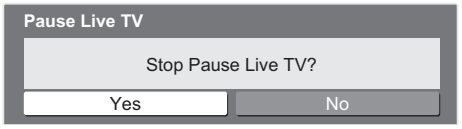
TV picture will be paused.
- Live TV programme is recorded on HDD from where it was paused.
- Follow the operation guide to operate Pause Live TV function.

To operate Pause Live TV



To return to Live TV
(stop playback of Pause Live TV / cancel pause)





- If you stop playback or cancel pause, the recorded programme will be deleted from HDD.

VIERA Link "HDAVI Control™"

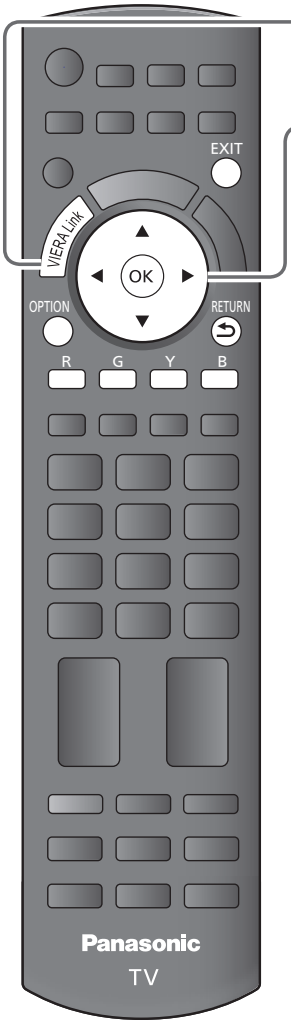
Features available (Using VIERA Link Menu)

Operate the connected equipment with VIERA remote control — VIERA Link Control

You can control some functions of the connected equipment with this TV remote control by pointing at the TV's signal receiver.

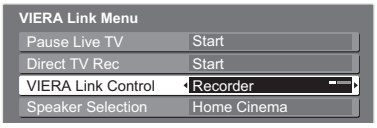
- If you cannot operate, check the settings and the equipment ➡ "VIERA Link features and connections" (p. 35)
- For details of the operations for the connected equipment, read the manual of the equipment.

Access and operate the menu of the equipment



① Display "VIERA Link Menu"

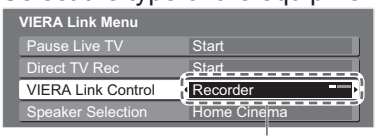
② Select "VIERA Link Control"



select

③ Select the equipment you want to access

The type of the connected equipment is displayed.
Select the type of the equipment and access.



① select
② access

Recorder / Player / Home Cinema / Video Camera / LUMIX / Other

- "Home Cinema" means Player theatre, Blu-ray Disc theatre or Recorder theatre.
- "Other" means Tuner set top box.

The menu of the accessed equipment
(Input mode will be changed automatically)

④ Operate the connected equipment

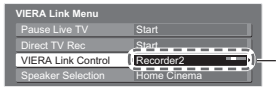
1. **Set the remote control code for TV (p. 19)**
2. **Follow the operation guide**

To display the operation guide ➡ OPTION
Store / set / access ➡ OK
Move the cursor / select the menu ➡
Return to the previous menu ➡ RETURN
Move the cursor / access / adjust ➡
Exit the menu ➡ EXIT
When the key words are displayed on colour bar ➡ R G Y B

Note

- Some operations may not be available for some equipment. If so, use its own remote control.

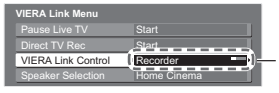
If several recorders or players are connected
You can connect up to three recorders or players at the same time.



Recorder1-3 / Player1-3

The number is given from the TV's lower HDMI terminal connected to the same type of equipment. For example, when two recorders are connected to HDMI2 and HDMI3, one connected to HDMI2 is displayed as Recorder1 and the other as Recorder2.

If you access the invalid equipment
When the equipment with "HDAVI Control" function is connected



Recorder1-3 / Player1-3

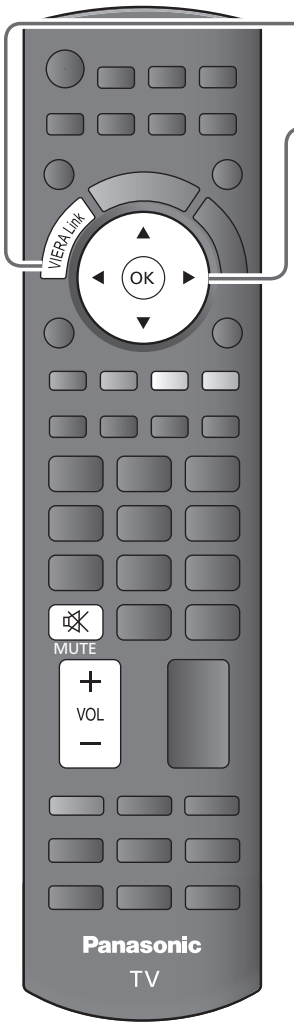
Type of the connected equipment is displayed. You can access the menu of the equipment. But you cannot operate it. Use its own remote control to operate the equipment.

Features available (Using VIERA Link Menu)

Speaker control — Speaker Selection

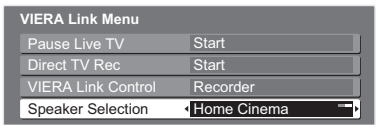
You can control the theatre speaker with this TV remote control by pointing at the TV's signal receiver.
● If you cannot operate, check the settings and the equipment ➡ "VIERA Link features and connections" (p. 35)

Access and control the speaker volume



① **Display "VIERA Link Menu"**

② **Select "Speaker Selection"**



③ **Set to "Home Cinema" or "TV"**

Home Cinema
Player theatre, Blu-ray Disc theatre or Amplifier will be automatically turned on if it is in Standby mode and the sound is from theatre speakers connected to the equipment.
● Volume up / down
➡ VOL (Volume slide bar will be displayed when adjusting the volume of the equipment.)
● Mute ➡ MUTE
● The sound of TV speakers is mute.
● When the equipment is turned off, TV speakers will be active.

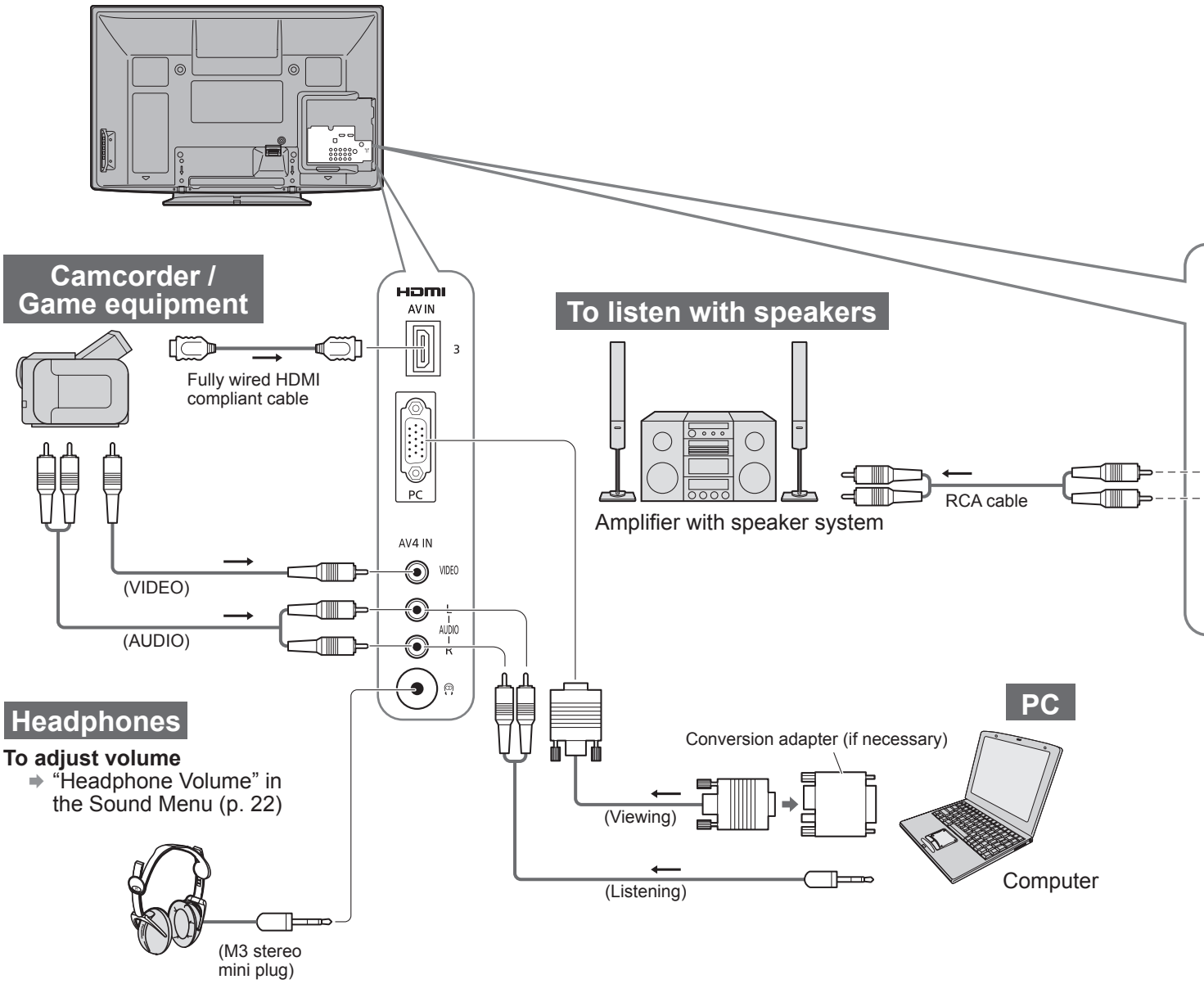
TV
TV speakers are active.

Note
● To enjoy the sound from the DIGA Recorder in multi-channel sound, connect an HDMI cable from the DIGA Recorder to the Amplifier (p. 35).

Note
● This function may not work properly depending on the connected equipment.
● Image or sound may not be available for the first few seconds when Input mode is switched.
● Easy playback may be available by using the remote control for Player theatre, Blu-ray Disc theatre or Amplifier. Read the manual of the equipment.
● "HDAVI Control 4" is the newest standard (current as of December, 2008) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.
● To confirm this TV's version of HDAVI Control ➡ "System Information" (p. 23)

External Equipment

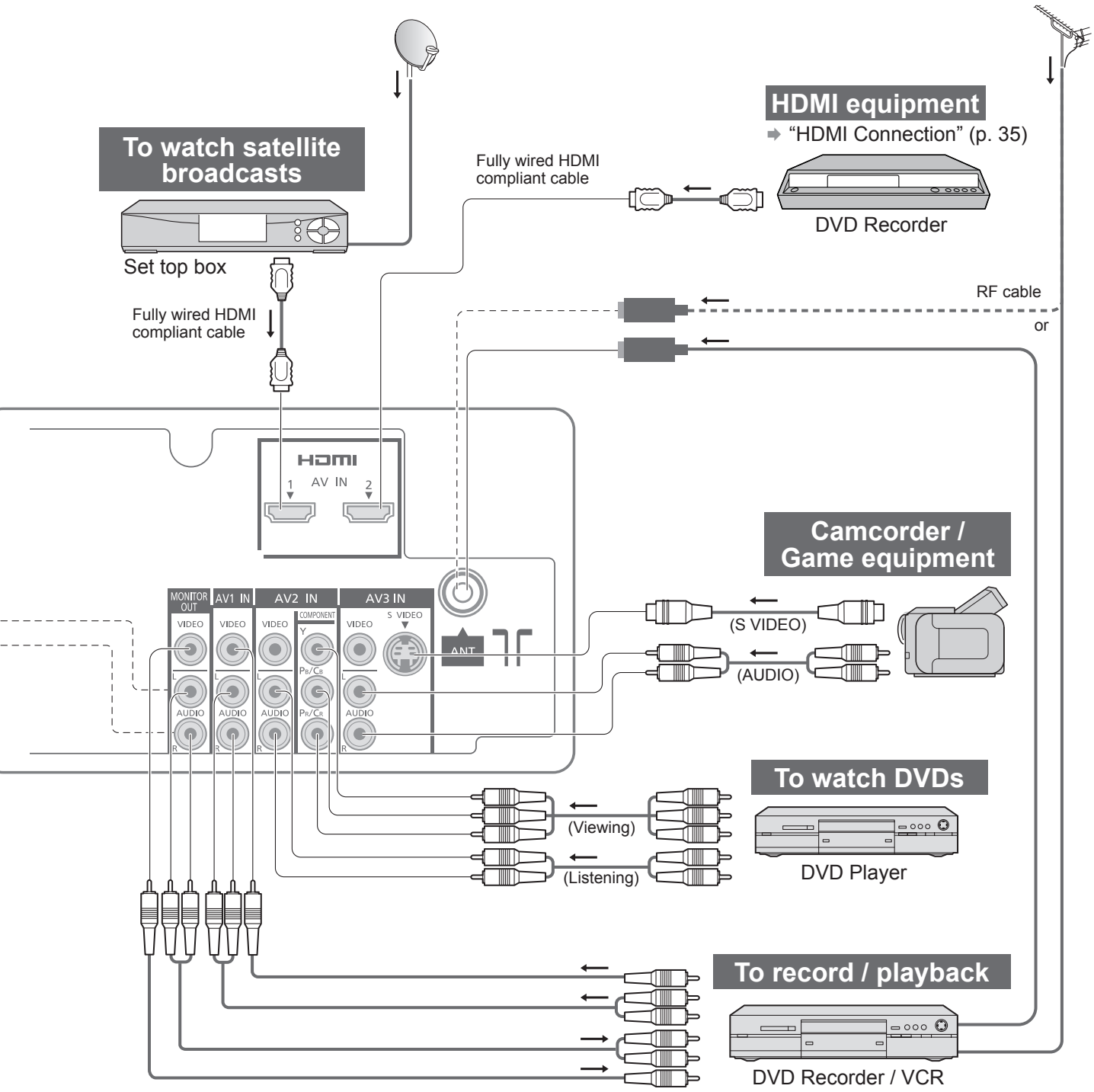
These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 47).



■ Types of connectable equipment to each terminal

Recording / Playback (equipment) \ Terminal	AV1 IN	AV2 IN	AV3 IN	AV4 IN (Side panel of TV)	
To record / playback videocassettes / DVDs (VCR / DVD recorder)	○	○	○	○	
To watch DVDs (DVD player)	○	○	○	○	
To watch camcorder images (Video camera)	○	○	○	○	
To watch satellite broadcasts (Set top box)	○	○	○	○	
To play games (Game equipment)	○	○	○	○	
To use amplifier with speaker system					
VIERA Link					

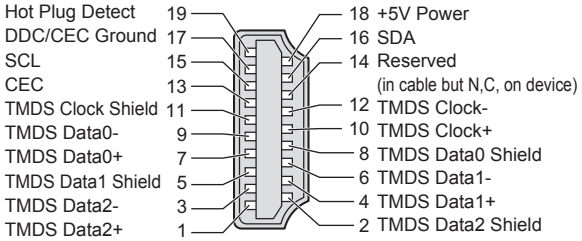
○: Recommended Connection



MONITOR OUT (VIDEO / L / AUDIO / R)	HDMI 1	HDMI 2	HDMI 3
○			
	○	○	○
	○	○	○
	○	○	○
	○	○	○
○	○	○	○
	○	○	○

S VIDEO 4 pin terminal

HDMI terminal



- Connect the S VIDEO or VIDEO terminal when using AV3 IN terminals
- Connect the COMPONENT or VIDEO terminal when using AV2 IN terminals.

Technical Information

Channel Allocation

Channel Plan	Asia / W.Europe	CIS / E.Europe	China	Hong Kong	NZ / Indonesia	Indian CATV	South Africa	American System	American CATV	Japan
CH DISPLAY	Receive channel									
0	–	–	–	–	–	–	–	–	–	–
1	–	1	1	–	1	1	1	–	1	1
2	2	2	2	–	2	2	2	2	2	2
3	⌇	⌇	⌇	–	⌇	3	⌇	⌇	⌇	⌇
4	⌇	⌇	⌇	–	⌇	4	⌇	⌇	⌇	⌇
5	⌇	⌇	⌇	–	⌇	S'1	⌇	⌇	⌇	⌇
6	⌇	⌇	⌇	–	⌇	S'2	⌇	⌇	⌇	⌇
7	⌇	⌇	⌇	–	⌇	S'3	⌇	⌇	⌇	⌇
⌇	⌇	⌇	⌇	–	⌇	S1	⌇	⌇	⌇	⌇
11	11	11	⌇	–	11	S2	11	⌇	⌇	⌇
12	12	12	12	–	–	S3	12	⌇	⌇	12
13	–	–	13	–	–	S4	13	13	⌇	13
14	–	–	⌇	–	–	⌇	–	14	⌇	⌇
15	–	–	⌇	–	–	⌇	–	⌇	⌇	⌇
16	–	–	⌇	–	–	⌇	–	⌇	⌇	⌇
⌇	–	–	⌇	–	–	⌇	–	⌇	⌇	⌇
19	–	–	⌇	–	–	S10	–	⌇	⌇	⌇
20	–	–	⌇	–	–	5	–	⌇	⌇	⌇
21	21	21	⌇	21	21	6	21	⌇	⌇	⌇
22	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇
23	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇
24	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇
⌇	⌇	⌇	⌇	⌇	⌇	12	⌇	⌇	⌇	⌇
28	⌇	⌇	⌇	⌇	⌇	S11	⌇	⌇	⌇	⌇
⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇
57	⌇	⌇	57	⌇	⌇	S40	⌇	⌇	⌇	⌇
58	⌇	⌇	–	⌇	⌇	S41	⌇	⌇	⌇	⌇
59	⌇	⌇	–	⌇	⌇	21	⌇	⌇	⌇	⌇
⌇	⌇	⌇	–	⌇	⌇	⌇	⌇	⌇	⌇	⌇
62	62	62	–	62	62	24	62	62	62	62
63	63	63	–	63	63	25	63	63	63	C13
⌇	⌇	⌇	–	⌇	⌇	⌇	⌇	⌇	⌇	⌇
69	69	69	–	69	69	31	69	69	⌇	⌇
70	–	–	–	–	–	32	–	–	⌇	⌇
⌇	–	–	–	–	–	⌇	–	–	⌇	⌇
73	–	–	–	–	–	⌇	–	–	⌇	⌇
74	S'1	S'1	–	S'1	S'1	⌇	S'1	–	⌇	⌇
75	S'2	–	–	S'2	S'2	⌇	S'2	–	⌇	⌇
76	S'3	–	–	S'3	S'3	⌇	S'3	–	⌇	⌇
77	–	–	–	–	–	⌇	–	–	⌇	⌇
78	–	–	–	–	–	⌇	–	–	⌇	⌇
79	–	–	–	–	–	41	–	–	⌇	⌇
80	S1	S1	–	S1	S1	42	S1	–	⌇	⌇
81	S2	S2	Z1	S2	S2	⌇	S2	–	⌇	⌇
⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	–	⌇	⌇
89	S10	S10	Z9	S10	S10	51	S10	–	⌇	⌇
90	S11	S11	Z10	S11	S11	52	–	–	⌇	⌇
91	S12	S12	Z11	S12	S12	⌇	–	–	⌇	⌇
92	S13	S13	Z12	S13	S13	⌇	–	–	⌇	⌇
93	S14	S14	Z13	S14	S14	⌇	S14	–	⌇	⌇
94	S15	S15	Z14	S15	S15	⌇	S15	–	⌇	⌇
95	S16	S16	Z15	S16	S16	⌇	S16	–	⌇	⌇
96	S17	S17	Z16	S17	S17	⌇	S17	–	⌇	⌇
97	S18	S18	Z17	S18	S18	⌇	S18	–	⌇	⌇
98	S19	S19	Z18	S19	S19	⌇	S19	–	⌇	⌇
99	S20	S20	Z19	S20	S20	61	S20	–	99	C49
100	S21	S21	Z20	S21	S21	62	S21	–	100	–
⌇	⌇	⌇	⌇	⌇	⌇	⌇	⌇	–	⌇	–
107	⌇	⌇	⌇	⌇	⌇	69	⌇	–	⌇	–
⌇	⌇	⌇	⌇	⌇	⌇	70	⌇	–	⌇	–
117	⌇	⌇	Z37	⌇	⌇	–	⌇	–	⌇	–
118	⌇	⌇	–	⌇	⌇	–	⌇	–	⌇	–
⌇	⌇	⌇	–	⌇	⌇	–	⌇	–	⌇	–
120	S41	S41	–	S41	S41	–	S41	–	⌇	–
⌇	–	–	–	–	–	–	–	–	⌇	–
125	–	–	–	–	–	–	–	–	125	–

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.
HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box, a DVD player or a game equipment, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.
About connections, see “External Equipment” (p. 40).

- 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 HDMI1 / 3 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 (HDMI1: use AV2 IN AUDIO terminals / HDMI3: use AV4 IN AUDIO terminals).
- Audio settings can be made on the “HDMI1 / 3 Input” menu screen. (p. 22)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- HDMI2 terminal is for digital audio signal only.
- Use with a PC is not guaranteed. Only HDMI video formats indicated in the HDMI table (p. 44) are applicable.
- If the connected equipment 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.
- An equipment having no digital output terminal may be connected to the input terminal of either COMPONENT, S VIDEO or VIDEO to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals:
  480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 44.

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

PC connection

A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV.

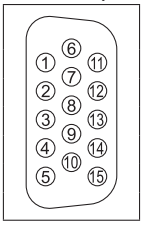
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
- A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- When using PC, set the colour display quality of PC to the highest position.
- For details of the applicable PC signals, see below.
- Max. display resolution

Aspect \ Model No.	TH-P42X10D, TH-P42X10K, TH-P42X10M, TH-P42X10P, TH-P42X10R, TH-P42X10S, TH-P42X10T	TH-P50X10D, TH-P50X10K, TH-P50X10M, TH-P50X10P, TH-P50X10R, TH-P50X10S, TH-P50X10T
4:3	768 × 768 pixels	1,024 × 768 pixels
16:9	1,024 × 768 pixels	1,366 × 768 pixels

- D-sub 15-pin connector signal



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC (not connected)
③	B	⑧	GND (Ground)	⑬	HD
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC (not connected)

Stereo / Bilingual Sound Selection

When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **Stereo / Bilingual Sound Selection** button.

Audio Signal	STEREO	MAIN Ⅰ	SUB Ⅱ	MONO
Mode Indicator	∞	Ⅰ	Ⅱ	▽

NICAM .....Used in New Zealand, Singapore, Hong Kong etc.

Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO Ⅰ (MAIN Ⅰ)	NICAM STEREO	NICAM DUAL MONO (MAIN Ⅰ / SUB Ⅱ)
Mode Indicator	No Indicator ⟷ ▽	Ⅰ ⟷ ▽	∞ ⟷ ▽	Ⅰ ⟶ Ⅱ ↑ ▽ ↵

A2 (German) .....Used in Australia, Malaysia etc.

Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN Ⅰ / SUB Ⅱ	STEREO
Mode Indicator	No Indicator ⟷ ▽	Ⅰ ⟷ Ⅱ	∞ ⟷ ▽

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position, using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

Technical Information

SD card

Cautions in handling SD Card

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

Data format for Card browsing

Photo : Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards
Data format – Baseline JPEG (Sub-sampling 4:4:4, 4:2:2 or 4:2:0)
Max. number of files – 9,999
Image resolution – 160 × 120 to 10,000,000

Movie : SD-Video Standard Ver. 1.2 [MPEG-2 (PS format)] and AVCHD Standard compatible files with an audio format that is either MPEG-1/Layer-2 format or Dolby Digital format (AVCHD files recorded with vertical frequency 50 Hz are applicable. A modified data with a PC may not be displayed correctly.)

- Compliant card type (maximum capacity): SDHC Card (32 GB), SD Card (2 GB), miniSD Card (2 GB) (requiring miniSD adapter)
- If miniSD Card is used, insert / remove it together with the adapter.
- Check the latest information on the card type at the following website. (English only)
  http://panasonic.co.jp/pavc/global/cs/

*DCF (Design rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

Note

- Format the card with the recording equipment.
- The picture may not appear correctly on this TV depending on the recording equipment used.
- Display may take some time when there are many files and folders.
- This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- A data modified with a PC may not be displayed.
- Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- All ".JPG" extension data in the card will be read in Photo View Mode.
- The folder and file names may be different depending on the digital camera used.
- Do not use two-byte characters or other special codes.
- The card may become unusable with this TV if the file or folder names are changed.

On screen messages

Message		Meaning / Action
Cannot read file	▶	● The file is broken or unreadable. ● The TV does not support the format.
Please confirm the SD card is OK	▶	● The inserted SD card has a problem.
No SD card inserted	▶	● Insert an SD Card.
No valid file to play	▶	● The card has no data.
Over 9999 pictures found (max. is 9999)	▶	● Maximum valid number of photos is 9,999.
This operation is not possible	▶	● Your operation is not available.

Input signal that can be displayed

COMPONENT (Y, P_B/C_B, P_R/C_R)**, HDMI**

* Mark: Applicable input signal

Signal name	COMPONENT	HDMI
525 (480) / 60i	*	*
525 (480) / 60p	*	*
625 (576) / 50i	*	*
625 (576) / 50p	*	*
750 (720) / 60p	*	*
750 (720) / 50p	*	*
1,125 (1,080) / 60i	*	*
1,125 (1,080) / 50i	*	*
1,125 (1,080) / 60p		*
1,125 (1,080) / 50p		*
1,125 (1,080) / 24p		*

PC (D-sub 15P)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.07
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.06
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1, 024 × 768 @85 Hz	68.68	85.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,280 × 768 @60 Hz	47.70	60.00
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13″ (640 × 480)	35.00	66.67
Macintosh16″ (832 × 624)	49.73	74.55
Macintosh21″ (1,152 × 870)	68.68	75.06

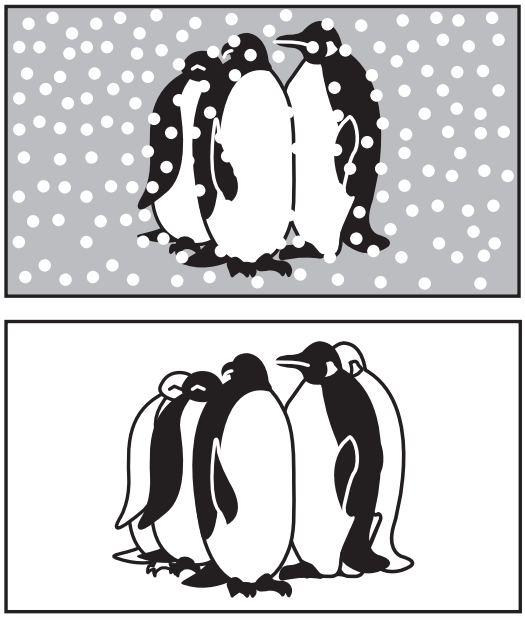
Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- Applicable input signal for PC is basically compatible to VESA standard timing.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

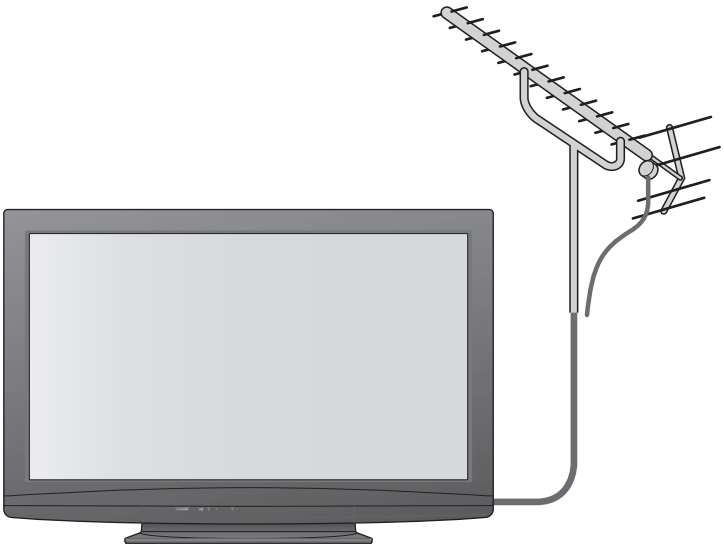
FAQs

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 for assistance.

White spots or shadow images (noise)



- Check the position, direction, and connection of the aerial.



“VIERA Link” function does not work and an error message appears

- Confirm the connection.
- Turn the connected equipment on and then switch the TV on. (p. 35)

Neither image nor sound is produced

- Is the TV in “AV mode”?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
- Check Picture Menu (p. 22) and volume.

Permanently lit spots on screen

- Due to production process involved in this technology this may result in some pixels which are permanently lit or unlit. This is not a malfunction.

An error message appears

- Follow the message’s instructions.
- If the problem persists, contact the authorised Service Centre.

Contrast is reduced

- Contrast is lowered in the following conditions without any user operation for a few minutes:
  - no signal in AV mode
  - selected locked programme
  - selected invalid programme
  - displayed menu
  - Thumbnail or still picture in SD Card mode

FAQs

	Problem		Actions
Screen	**Chaotic image, noisy**	▶	● Set “P-NR” in the Picture Menu (to remove noise). (p. 22) ● Check nearby electrical products (car, motorcycle, fluorescent lamp).
	No image can be displayed	▶	● Is “Colour” or “Contrast” in the Picture Menu set to the minimum? (p. 22)
	Blurry or distorted image (no sound or low volume)	▶	● Reset channels. (p. 27)
	Unusual image is displayed	▶	● Turn off the TV with Mains power On / Off switch, then turn it on again.
Sound	**No sound is produced**	▶	● Is “Sound mute” active? (p. 9) ● Is the volume set to the minimum?
	Sound level is low or sound is distorted	▶	● Sound signal reception may be deteriorated. ● Set “MPX” (p. 22) in the Sound Menu to “Mono”.
HDMI	**Sound is unusual**	▶	● Set the sound setting of the connected equipment to “2ch L.PCM”. ● Check the “HDMI1 / 3 Input” setting in the Sound Menu. (p. 22) If digital sound connection has a problem, select analogue sound connection.
	Pictures from external equipment are unusual when the equipment is connected via HDMI	▶	● Is the HDMI cable connected properly? (p. 40) ● Turn Off the TV and equipment, then turn them On again. ● Check an input signal from the equipment. (p. 44) ● Use an equipment compliant with EIA/CEA-861/861B.
Other	**TV goes into “Standby mode”**	▶	● Off Timer function is activated. ● The TV enters “Standby mode” about 30 mins. after broadcasting ends.
	The remote control does not work	▶	● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On?

Specifications

			TH-P42X10D TH-P42X10K TH-P42X10M TH-P42X10R TH-P42X10S TH-P42X10T	TH-P42X10P	TH-P50X10D TH-P50X10K TH-P50X10M TH-P50X10R TH-P50X10S TH-P50X10T	TH-P50X10P
Power Source			AC 220–240 V, 50 / 60 Hz	AC 110–240 V, 50 / 60 Hz	AC 220–240 V, 50 / 60 Hz	AC 110–240 V, 50 / 60 Hz
Power Consumption	**Average use**		285 W		385 W	390 W
	Standby condition		0.7 W		0.5 W	
Display panel	**Aspect Ratio**		16:9			
	Visible screen size		106 cm (diagonal)		127 cm (diagonal)	
			921 mm (W) × 518 mm (H)		1,106 mm (W) × 622 mm (H)	
	Number of pixels		786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]		1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	
Sound	**Speaker**		160 mm × 40 mm × 2 pcs, 6 Ω			
	Audio Output		20 W (10 W + 10 W), 10% THD			
	Headphones		M3 (3.5 mm) stereo mini Jack × 1			
PC signals			VGA, SVGA, XGA SXGA ····· (compressed) Horizontal scanning frequency 31–69 kHz Vertical scanning frequency 59–86 Hz			
Receiving Systems / Band name			17 Systems: 1 PAL B, G, H; 2 PAL I; 3 PAL D, K; 4 SECAM B, G; 5 SECAM D, K; 6 SECAM K1; 7 NTSC M (NTSC 3.58/4.5 MHz) — Function: Reception of broadcast transmissions and Playback from Video Cassette Tape Recorders 17 Systems: 8 NTSC 4.43/5.5 MHz; 9 NTSC 4.43/6.0 MHz; 10 NTSC 4.43/6.5 MHz; 11 NTSC 3.58/5.5 MHz; 12 NTSC 3.58/6.0 MHz; 13 NTSC 3.58/6.5 MHz; 14 SECAM I — Function: Playback from Special VCR's or DVD 15 PAL 60 Hz/5.5 MHz; 16 PAL 60 Hz/6.0 MHz; 17 PAL 60 Hz/6.5 MHz — Function: Playback from Special Disc Players and Special VCR's or DVD			
Receiving Channels (Regular TV)			**VHF BAND** 2–12 (PAL/SECAM B, K1) 0–12 (PAL B AUST.) 1–9 (PAL B N.Z.) 1–12 (PAL/SECAM D) 1–12 (NTSC M Japan) 2–13 (NTSC M USA)	**UHF BAND** 21–69 (PAL G, H, I/SECAM G, K, K1) 28–69 (PAL B AUST.) 13–57 (PAL D, K) 13–62 (NTSC M Japan) 14–69 (NTSC M USA)	**CATV** S1–S20 (OSCAR) 1–125 (USA CATV) C13–C49 (JAPAN) S21–S41 (HYPER) Z1–Z37 (CHINA) 5A, 9A (AUST.)	
Aerial - Rear			VHF / UHF			
Operating Conditions			**Temperature** : 0 °C – 40 °C **Humidity** : 20 % – 80 % RH (non-condensing)			
Connection Terminals	**AV1 Input**	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]		
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)		
	AV2 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]		
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)		
		COMPONENT	Y P_B/C_B, P_R/C_R	1.0 V[p-p] (including synchronisation) ±0.35 V[p-p]		
	AV3 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]		
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)		
		S VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)		
	AV4 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]		
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)		
	Monitor Output	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms] (high impedance)		
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)		
	Others	**HDMI1 / 2 / 3 Input**	TYPE A Connectors	● This TV supports "HDAVI Control 4" function.		
		PC Input	HIGH-DENSITY D-SUB 15PIN	R, G, B/0.7 V[p-p] (75 Ω) HD, VD/TTL Level 2.0–5.0 V[p-p] (high impedance)		
		Card slot	SD Card slot × 1			
Dimensions (W × H × D)			1,029 mm × 704 mm × 334 mm (With Pedestal) 1,029 mm × 661 mm × 105 mm (TV only)		1,218 mm × 814 mm × 401 mm (With Pedestal) 1,218 mm × 769 mm × 105 mm (TV only)	
Mass			28 kg Net (With Pedestal) 26 kg Net (TV only)		36 kg Net (With Pedestal) 34 kg Net (TV only)	

Note

- Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.
- Pedestal: ST-42CF2WG / ST-50CF2WG (For safety approval)

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Customer’s Record

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

Model Number _____ Serial Number _____

Panasonic Corporation
Web Site: http://panasonic.net/
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Printed in Singapore
F0209NS2049