



# Panasonic®

## Operating Instructions Plasma Television

Model No. **TH-P42X14A**  
**TH-P50X14A**

# VIERA

**DVB**®

**VIERA**  
Link

**DOLBY**  
DIGITAL

**VIERA**  
IMAGE VIEWER

**SD**  
**HD**

**HDTV**

**HDMI**™  
HIGH-DEFINITION MULTIMEDIA INTERFACE

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

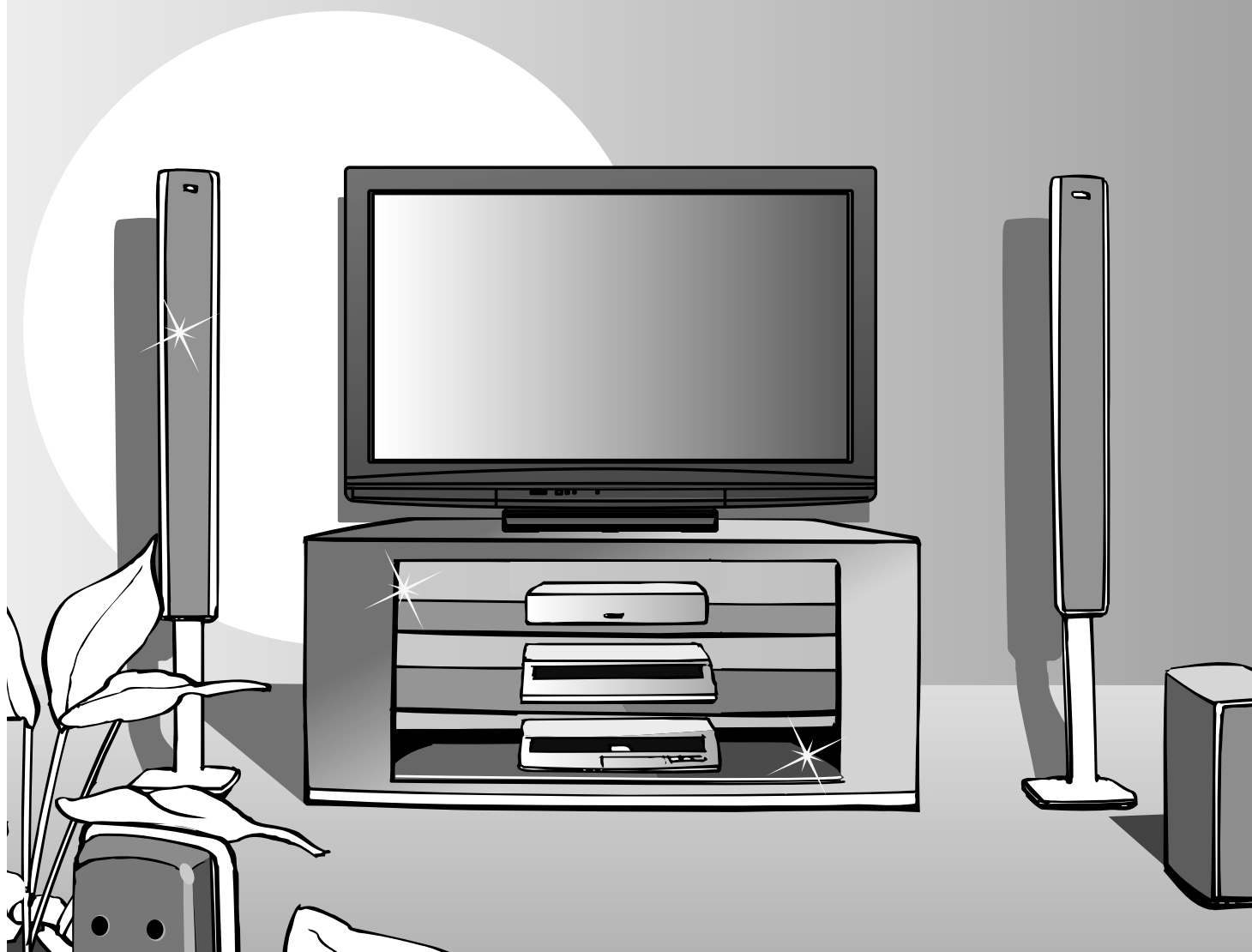
English

TQB3DC0002

Turn your own living room into a movie theatre!

# Experience an amazing level of multi-

Receive digital terrestrial services using an integrated Digital TV tuner  
Sharp pictures with HDMI terminal  
Create home theatre and DVD recorder link-ups with "VIERA Link"  
without complicated settings!



Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)  
TH-P42X14A Declaration of Conformity No. 6353, 7 January 2009  
TH-P50X14A Declaration of Conformity No. 6354, 7 January 2009

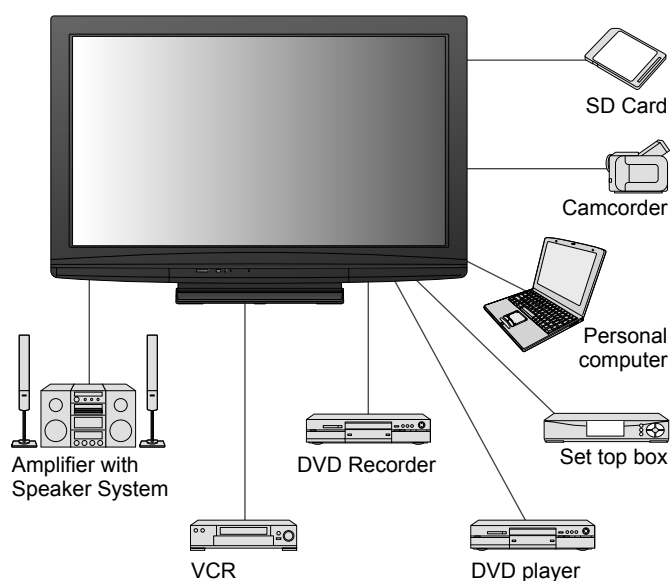
## Notice about Digital TV Functions

- The MPEG-4 AVC feature was designed to specifications as we know them today. This specification may be subject to future changes beyond our control that may not guarantee the decoding of such services.

February 2009

# media excitement

## Enjoy rich multimedia



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# Safety Precautions

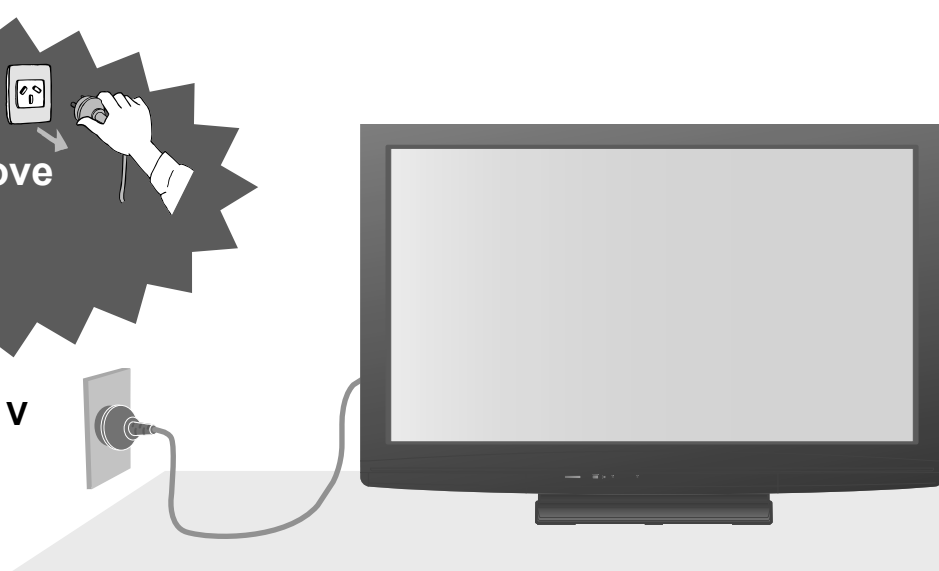
## Warning

### 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.

If you find any abnormality, remove the mains plug immediately!

AC 220 - 240 V  
50 / 60 Hz



### Power source

- This TV is designed to operate on AC 220 - 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.

### Avoid exposing the TV to high atmospheric moisture (such as tropical rain) or night time dew condensation

- This TV is designed and manufactured for indoor use only.

### 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 / mounts (p. 8).

### Do not allow children to handle SD Card

- As with any small object, SD Cards can be swallowed by young children. Please remove SD Card immediately after use and store out of reach of children.

## Important Installation Notices

### Install TV on a stable surface

If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Not standing the televisions on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television or its controls.

### When cleaning the TV, remove the mains plug

- Cleaning an energized TV may cause electrical shock.

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

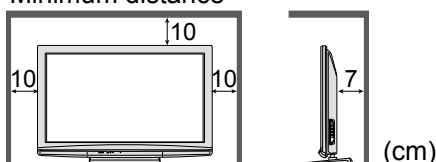
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

### Transport only in upright position

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

### Allow sufficient space around the TV for radiated heat

Minimum distance



- 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.

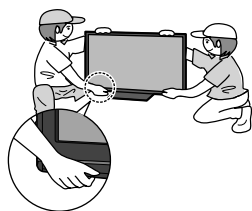
### Do not expose your ears to excessive volume from the headphones

- 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 by the TV tipping or falling.



### Auto power standby function

- If no signal is received and no operation is performed in Analogue 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.

### 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. 49)

# 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.

# Licence

- DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).
- VGA is a trademark of International Business Machines Corporation.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
- SDHC Logo is a trademark.
- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDAVI Control™ is a trademark of Panasonic Corporation.
- Manufactured under license from Dolby Laboratories.  
Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- Macintosh is a trademark of Apple Inc.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See <http://www.mpegla.com>.

# Accessories / Options

## Standard accessories

Check that you have the accessories and items shown ☒

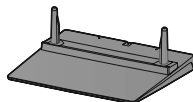
☐ Remote Control  
● N2QAYB000352



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



☐ Pedestal  
➔ p. 8

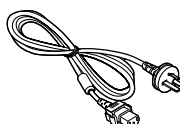


☐ Fall-prevention parts  
➔ p. 9

☐ Cleaning cloth



☐ Mains Lead  
➔ p. 11



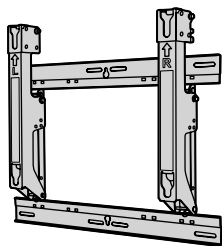
☐ Operating Instructions with Warranty statement

### 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

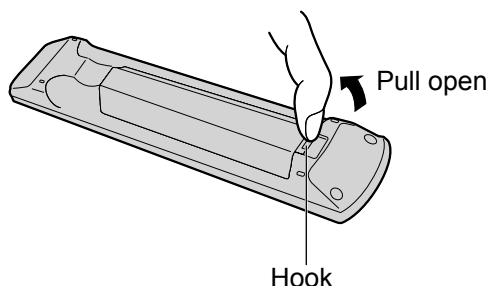


### Caution

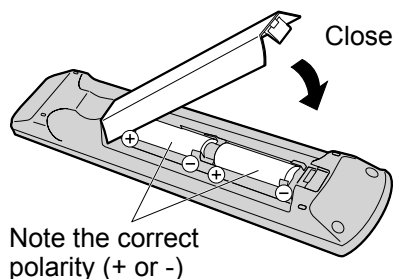
- In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licenced contractor to secure the wall-hanging brackets.
- Carefully read the instructions accompanying the wall-hanging bracket, and be absolutely sure to take steps to prevent the TV from falling off.
- 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.

# Accessories / Options

## 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.

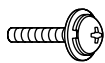
**Ensure that the TV does not fall over.**

- 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.**

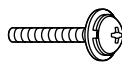
- If two or more people are not present, the TV may be dropped, and personal injury may result.

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



M5 × 18

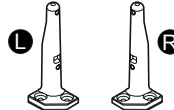
Ⓑ Assembly screw (4)  
(black)  
● THEL064N



M5 × 25

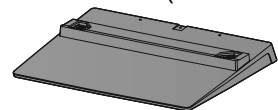
Ⓒ Pole (2)

- L:TBL3DA3008
- R:TBL3DA3007



Ⓓ Base

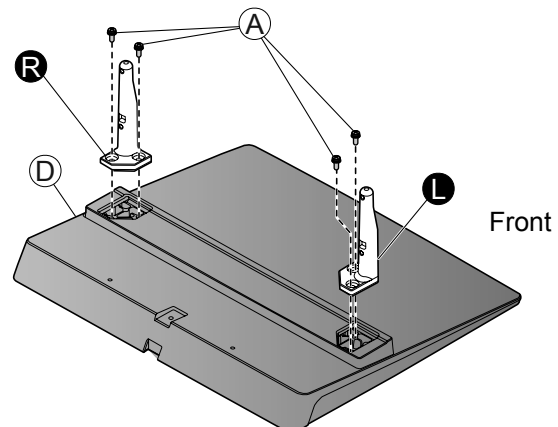
- TBL3DX0014 (TH-P42X14A)
- TBL3DX0016 (TH-P50X14A)



### Assembling the pedestal

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

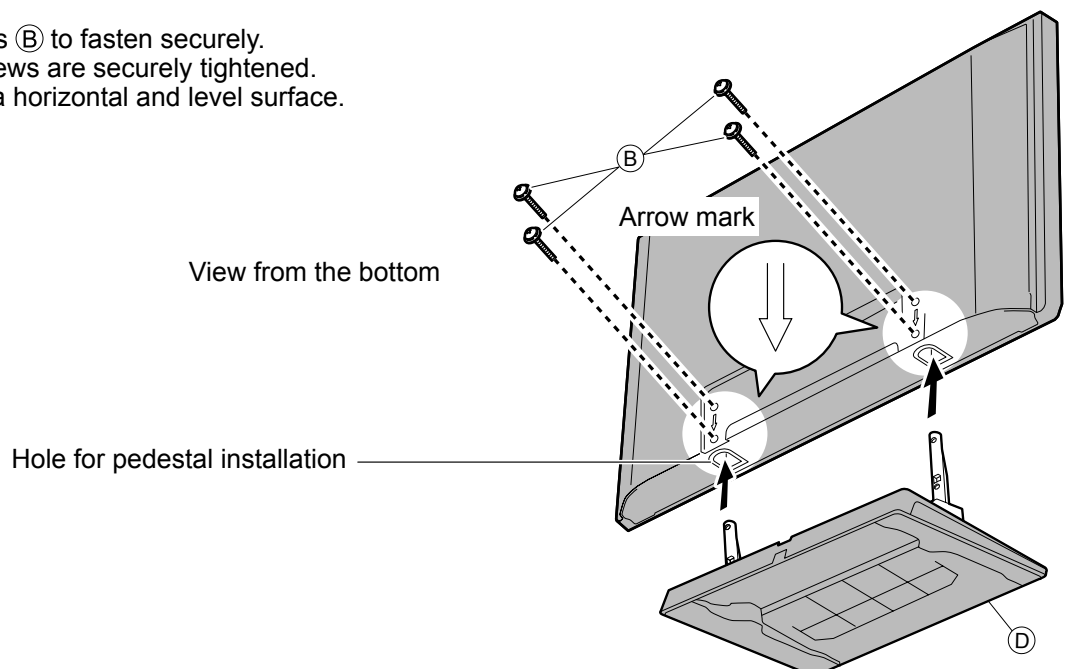
- Make sure that the screws are securely tightened.
- Forcing the assembly screws the wrong way will strip the threads.
- "L" or "R" mark is stamped on the bottom of the pole.



### 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.





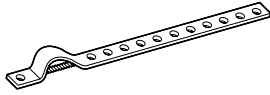
## Preventing the TV from falling over

This TV could fall over if it's pushed, pulled or knocked down.  
We therefore recommend the TV is secured to the base as illustrated.

● This measure is designed to reduce the risk of injury from a falling TV. However, it cannot guarantee protection in all cases.

### Fall-prevention parts

Ⓐ Band  
● TKLA4301



Ⓑ Clamp  
● TKL3DA0101



Ⓒ Screw

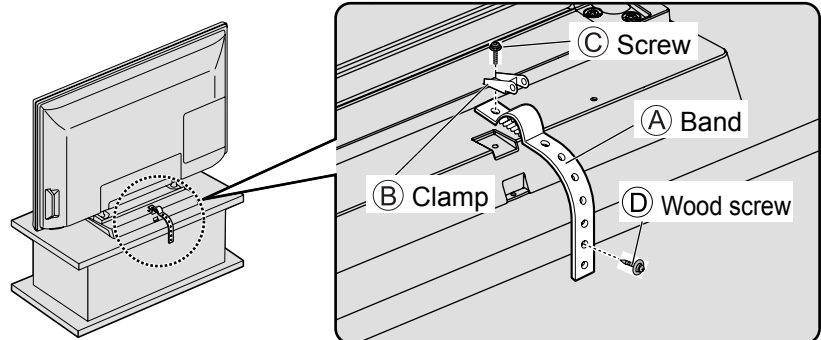


Ⓓ Wood screw



### Securing to a base

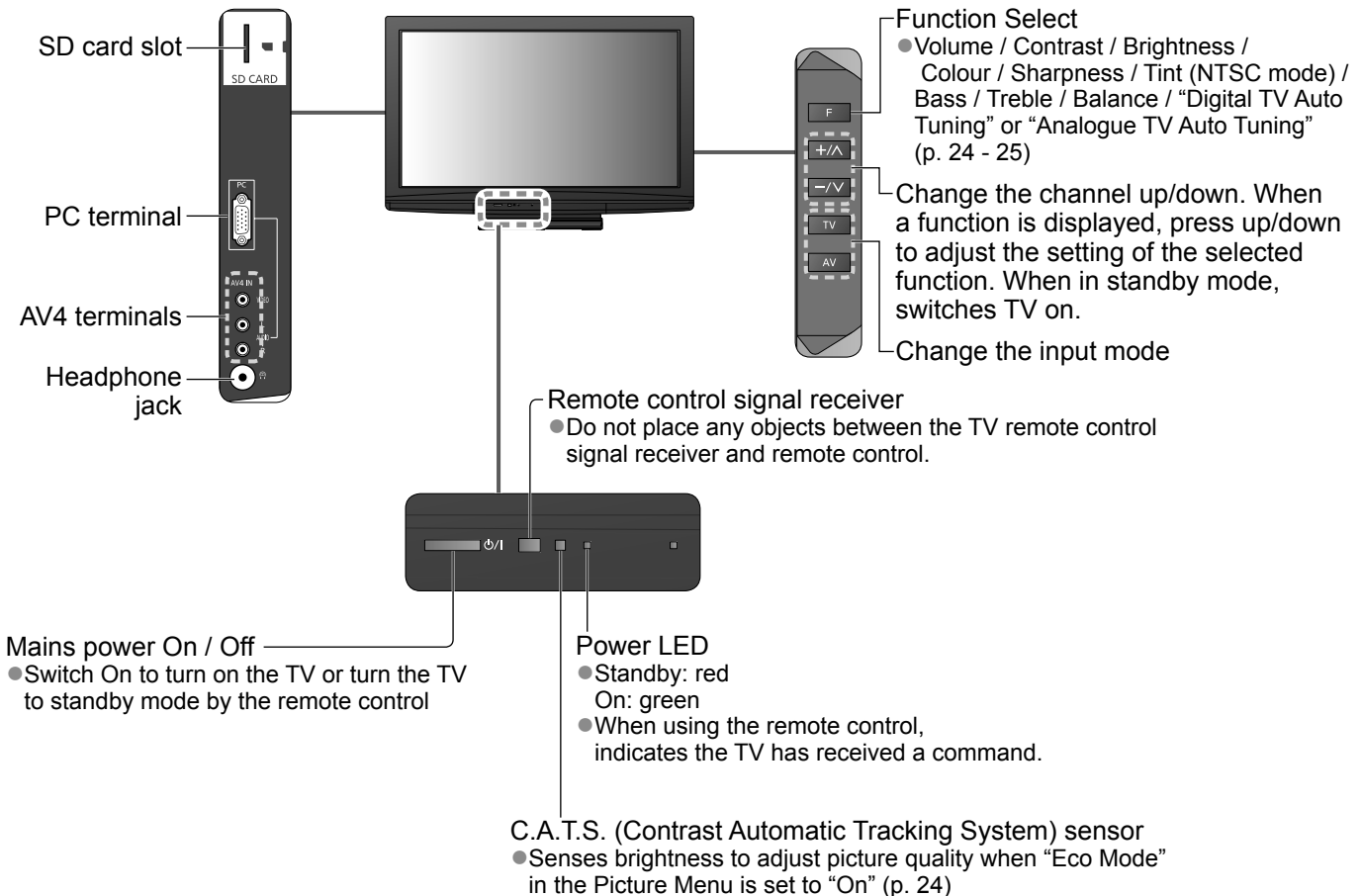
Fix pedestal and base together with band.



This image is for illustrative purposes only.

## Identifying Controls

### TV



# Identifying Controls

## Remote Control

SD Card (p. 35)  
● Switches to SD Card viewing mode

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

Aspect (p. 16)  
● Changes aspect ratio from Aspect Selection list  
● Also possible by pressing this button repeatedly until you reach the desired aspect

Main Menu (p. 22)  
● Press to access Picture, Sound and Setup Menus

Channel / Programme Information (p. 15)  
● Displays channel and programme information

VIERA TOOLS (p. 43)  
● Displays functions of the linked equipment and SD card

VIERA Link (p. 38)  
● Press to access VIERA Link Menu

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

Option Menu (p. 16)  
● Easy setting for sound options

Teletext (p. 18)  
● Switches to teletext mode

Subtitles (p. 14)  
● Displays subtitles

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  
● TV - switches Digital TV / Analogue TV mode (p. 14)  
● AV - switches to AV input mode from Input Selection list (p. 20)

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

Stereo / Bilingual Sound Selection (p. 46)  
● Changes the sound track when more than two choices are available (Digital TV mode) (p. 16)

Exit  
● Returns to the normal viewing screen

Guide (p. 17)  
● Displays TV Guide

Cursor buttons  
● Makes selections and adjustments

Return  
● Returns to the previous menu

Coloured buttons  
● Used for the selection, navigation and operation of various functions

Hold  
● Freeze / unfreeze picture (p. 14)  
● Holds the current teletext page (teletext mode) (p. 18)

Index (p. 19)  
● Returns to the teletext index page (teletext mode)

Surround (p. 24)  
● Switches surrounding sound setting

Channel Up / Down  
● Selects channel in sequence

VCR / DVD Panasonic equipment operations (p. 20)



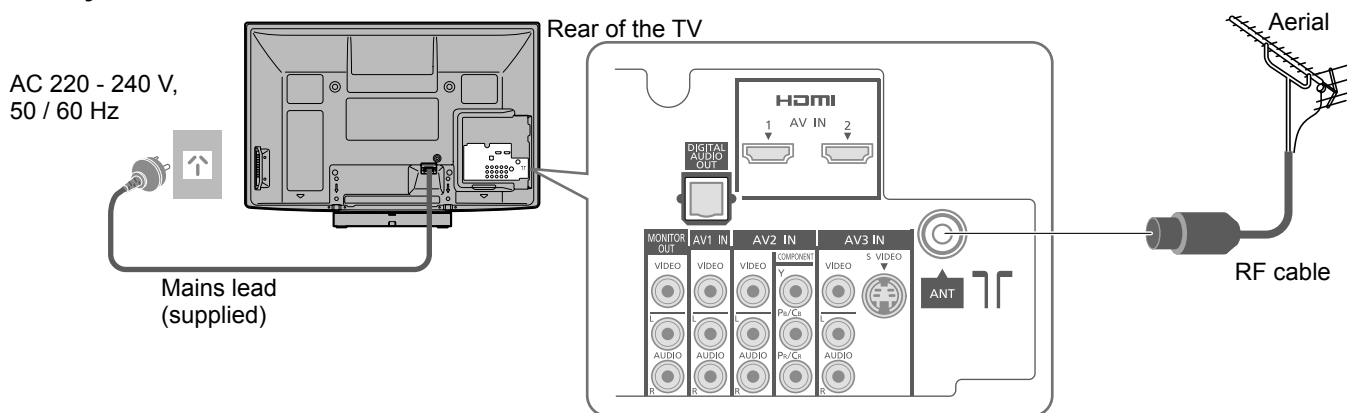
# Basic Connection

External equipment and cables shown are not supplied with this TV.

Please ensure that the TV 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.

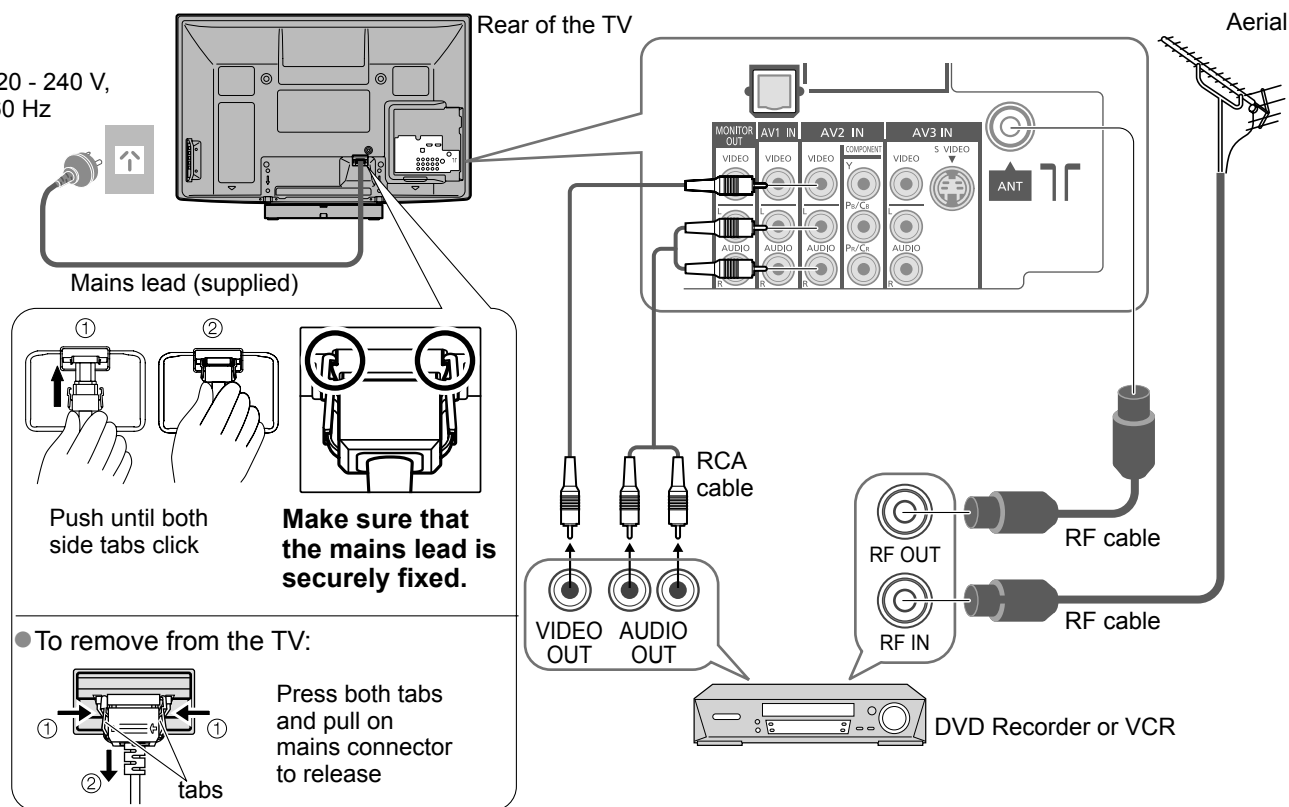
## Connecting aerial

### TV only



## Connecting DVD Recorder / VCR

### TV, DVD Recorder or VCR



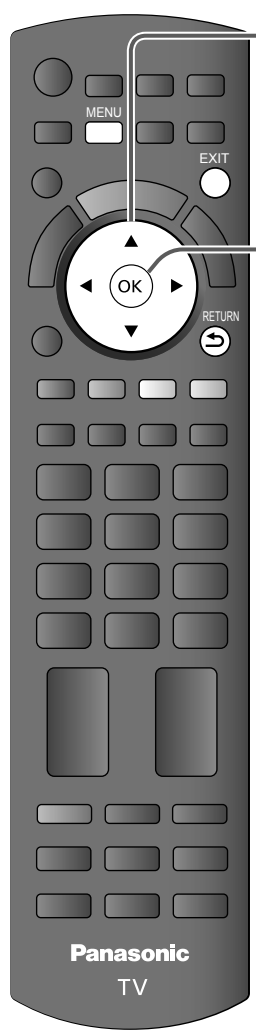
### Note



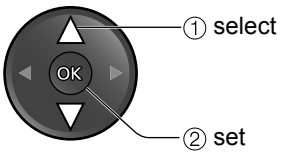
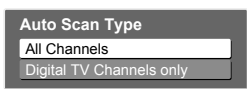
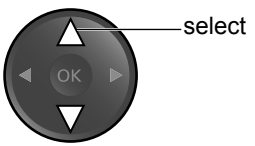

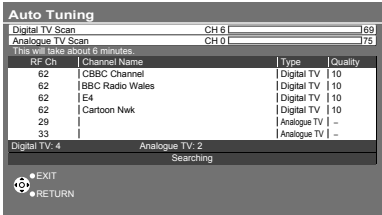

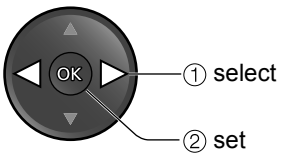
- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75  $\Omega$  coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may 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. 38
- Read the manual of the equipment too.

# Auto Tuning

Search and store TV channels 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 area**  


- 3 Select Auto Scan Type**  


- 4 Start Auto Tuning**  


  - 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” is set as “Normal”. (p. 24) Shop: “Viewing Mode” is set as “Dynamic”. (p. 24)

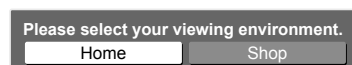
**Auto Tuning is complete**

## If you select “Shop” by mistake

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

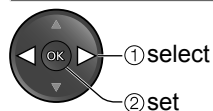


Select “Home”



**Auto Tuning is complete**

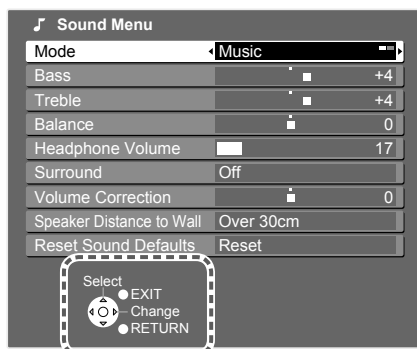
- Once you press the OK button in this menu, the TV is set to Shop mode. Please reset all settings to set to “Home” mode. ➔ “Shipping Condition” (p. 32)



## 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



Open the Main Menu



Move the cursor / select the menu



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



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



Return to the previous menu

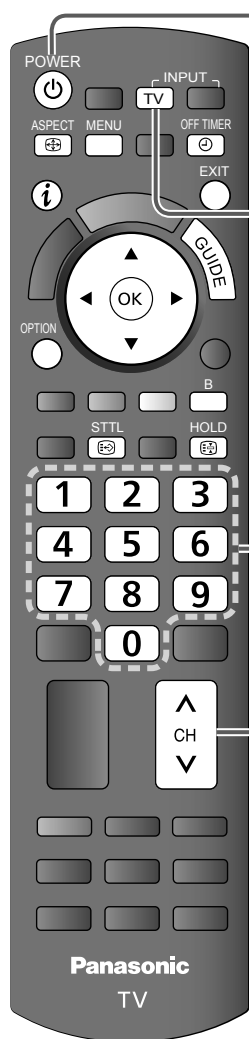


Exit the menu system and return to the normal viewing screen

### Note

- To edit channels ➔ “Editing Channels” (p. 28)
- If tuning has failed ➔ “Tuning Channels” (p. 30)
- To reset all settings ➔ “Shipping Condition” (p. 32)
- 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



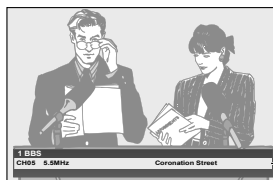
- Mains power On / Off switch should be On. (p. 9)

2

## Select Digital TV or Analogue TV mode



- Also possible to select the mode using the TV button on the side panel of the TV. (p. 9)

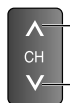


Information banner appears whenever you select a channel

- For details → p. 15

3

## Select a channel



up

or



down

- 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

- To select from the Channel List



① select a channel

② watch

### Note

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

### Select a channel using information banner (p. 15)

Possible to confirm the programme name before selecting channels.

Display information banner if it is not displayed



While the banner is displayed, select a channel



① select a channel

② watch

- Possible to set display timeout in "Banner Display Timeout" (p. 25).

### Select a channel using TV Guide (Digital TV mode) (p. 17)

Possible to confirm the TV Guide (EPG) before selecting channels.

Display TV Guide



Select a channel



① select a channel

② watch

### Other useful functions

Hold

HOLD



**Freeze / unfreeze picture**

Display subtitles

STTL



**Display / hide subtitles** (if available)

## Other useful functions

### Display information banner



#### Display information banner

- Also appears when changing channels

Programme name Channel Current time

1 TEN Digital 10:30am All Digital Channels

Coronation Street Select favourites

9:00 am - 11:00 am ◀ Now ▶ Software update

Rating: PG Bad signal I/II 45

Digital TV: Programme Start / Finish time (example)

Analogue TV: Channel status

#### Features available / Message meanings

	Sound mute On	<b>Bad signal</b>	Poor TV signal quality (Digital TV mode)		Teletext service available
	Audio mode (p. 46) (Analogue TV mode)	<b>Encrypted</b>	Scrambled programme (Digital TV mode)		Multiple audio available (Digital TV mode)
<b>Rating:</b>	Rating information (Digital TV mode) (p. 46)		Subtitle service available	<b>1 - 90</b>	Off Timer remaining time
					For settings → see below

- To confirm another tuned channel name



- To watch the programme listed in the banner



- To select a favourite list (Digital TV mode)



- To hide



- Information on the next programme (Digital TV mode)



- To set display timeout
- “Banner Display Timeout” (p. 25)

- Extra information (press again to hide the banner) (Digital TV mode)



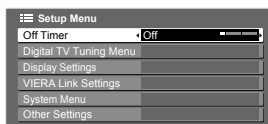
### Off Timer

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

OFF TIMER



Press repeatedly to set the time or MENU



Select “Off Timer” and set the time

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

#### Adjust the standard time Region Select

Select the region where you live to adjust the standard time.

- The time contained in the broadcast signal is UTC (Universal Time coordinated) formally known as GMT (Greenwich Mean Time).

Region	Standard time	Daylight Saving Time: Auto (During Summer Time)
NSW / ACT	+10:00	+11:00
Victoria		
Queensland	+10:00	
South Australia	+9:30	+10:30
Western Australia	+8:00	+9:00
Northern Territory	+9:30	
Tasmania	+10:00	+11:00

(Based on GMT)

- These items can be set from “Other settings” in Setup Menu. (p. 23, 25)

#### Adjust for Summer Time Daylight Saving Time

Select time offset from the standard time for Summer Time.

- Normally select “Auto”.
- If there is a gap between displayed time and actual time, set this function.

# Watching TV

## Other useful functions

### Display the selectable settings for the current programme

**OPTION** **Check or change the current programme status instantly**



② change  
① select

Change the settings

#### Audio selection (Digital TV mode)

Allows you to select between alternative language for sound tracks (if available)

#### Volume Correction

Adjusts volume of individual programme or input mode

#### MPX (Analogue TV mode)

➔ Sound Menu (p. 24)

#### Note

- Also possible to change the settings in Menu list (p. 24 and p. 25).

### Change aspect ratio

ASPECT



#### Change the aspect ratio



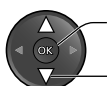
Aspect Selection list

Enjoy viewing the picture at its optimum size and aspect.

ASPECT



Display Aspect Selection list ➔



② store  
① select

While the list is displayed, select the mode

- 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.  
● Digital TV mode and 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).

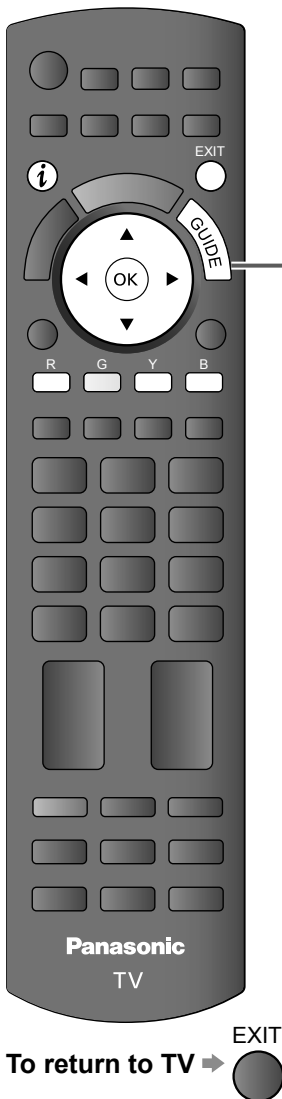
#### Note

- Only "16:9" and "4:3 Full" are available in Digital TV mode.
- 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 memorized separately for SD (Standard definition) and HD (High definition) signals. (except Digital TV mode)



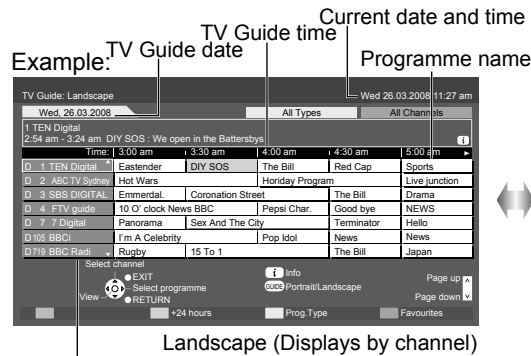
# Using TV Guide

Using TV Guide enables you to select programme easily, view programme informations, etc. TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of the programmes currently broadcast and the future broadcasts over the next seven days (depending on the broadcasters).

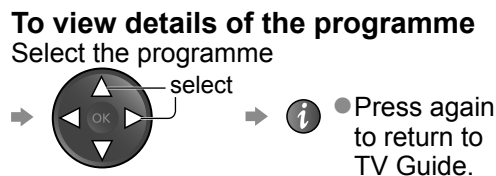
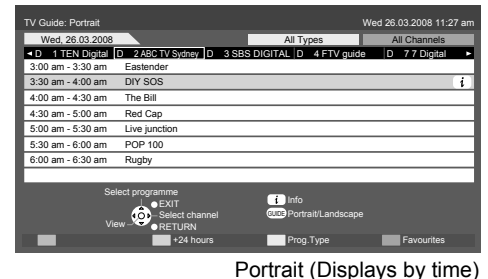


## View TV Guide

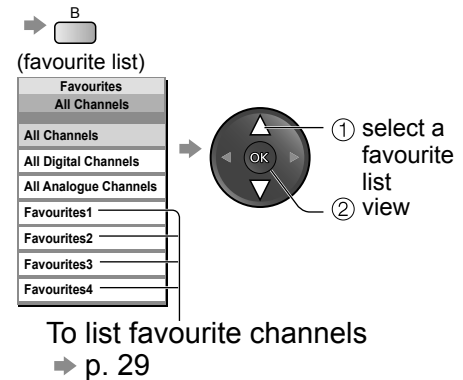
Each time pressed, the layout will be changed.  
(Landscape / Portrait)



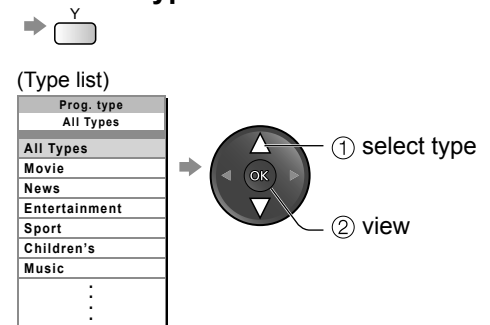
Example:



## To view a channel list of the selected favourite list



## To view a channel list of the selected type



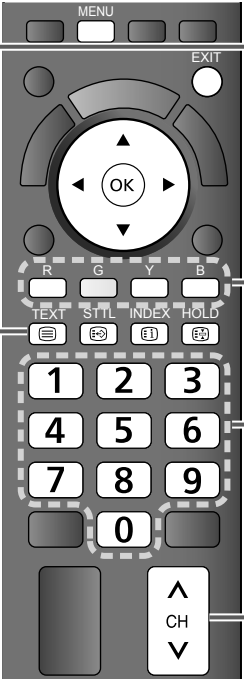
### Note

- When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.

# Viewing Teletext

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

**To change mode** → "Teletext" in Setup Menu (p. 25)



**1 Switch to Teletext**

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

**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 the blue bar is displayed

**To return to TV** → TEXT or EXIT

Sub page number

<< 01 02 03 04 05 06 07 >>

Current page number **P100** 17:51 28 Feb Time / date

**TELETEXT INFORMATION**

Colour bar

## 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  
(After the last subject, it moves to the next subject block.) → Y

## 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. 19)

## Using teletext conveniently



**Hold**


**HOLD**  **Stop automatic updating**

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


















**To resume** → 

**Reveal hidden data**

 →  **Reveal hidden words e.g. quiz page answers**

**Re-hide** → 

## Using teletext conveniently

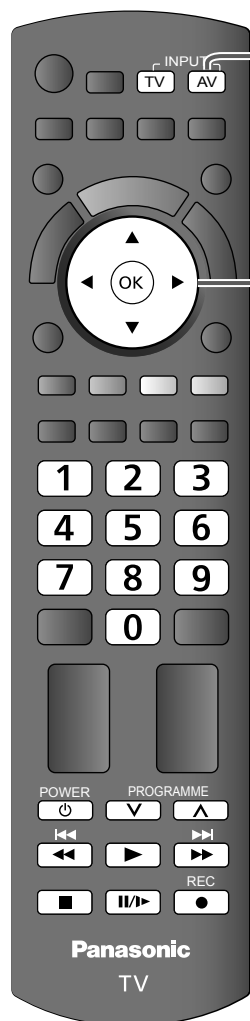
INDEX	Call up Subtitles
<b>INDEX Return to the main index page</b> 	<b>STTL Display subtitles</b>  <ul style="list-style-type: none"> <li>● Call up P801 (subtitle page) if available.</li> <li>● If you press this button during P801 is displayed, teletext mode will be cancelled and return to TV.</li> </ul>
<b>View in multiwindow</b>	
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <b>MENU</b>   (Press twice) →  </div> <div> <b>Watch TV and Teletext in two windows at once</b> <ul style="list-style-type: none"> <li>● Operations can be made only in Teletext screen.</li> <li>● Select Picture and text On or Off</li> </ul> </div> <div style="margin-left: 20px; text-align: center;">  </div> </div>	
<b>FULL / TOP / BOTTOM</b>	
<div style="display: flex; align-items: center; justify-content: space-around;"> <div style="text-align: center;"> <b>MENU</b> → <b>G</b>   →  </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <b>P100</b> Broadcast         </div> <p>(Expand the TOP half)</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <div style="border-bottom: 1px solid black; height: 10px; width: 100%;"></div> </div> <p>(Expand the BOTTOM half)</p> </div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <b>P100</b> Broadcast         </div> <p>Normal (FULL)</p> </div> </div>	
<b>Store frequently viewed pages</b>	
<b>Store frequently viewed pages in the colour bar (List mode only)</b> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;">  <p>Corresponding colour button (As page is displayed)</p> </div> <div style="margin-right: 20px;">→</div> <div style="text-align: center;">  <p>press and hold</p> </div> </div> <div style="margin-top: 10px; text-align: center;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <b>P100</b> Broadcast         </div> <div style="border: 1px solid black; display: inline-block; padding: 2px 5px; margin-top: 5px;"> 101   200   400   888         </div> <p>The number changes to white.</p> </div>	
<b>To change stored pages</b> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;">  <p>Colour button you want to change</p> </div> <div style="margin-right: 20px;">→</div> <div style="margin-right: 20px;"> <div style="display: flex; flex-wrap: wrap;"> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">1</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">2</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">3</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">4</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">5</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">6</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">7</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">8</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">9</div> <div style="border: 1px solid black; padding: 2px 5px; margin: 2px;">0</div> </div> <p>Enter new page number</p> </div> <div style="margin-right: 20px;">→</div> <div style="text-align: center;">  <p>press and hold</p> </div> </div>	
<b>View sub page</b>	
<b>View sub page (Only when teletext is more than one page)</b> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;">  </div> <div style="margin-right: 20px;">→</div> <div style="border: 1px solid black; padding: 5px; display: flex; align-items: center;"> <div style="border-right: 1px solid black; padding-right: 5px;">&lt;&lt;01</div> <div style="border-right: 1px solid black; padding-right: 5px; text-decoration: underline;">02</div> <div style="border-right: 1px solid black; padding-right: 5px;">03</div> <div style="border-right: 1px solid black; padding-right: 5px;">04</div> <div style="padding-left: 5px;">05</div> </div> <div style="margin-left: 20px;"> <p>Appears at top of the screen</p> </div> </div>	
<b>To view specific sub page</b> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> <b>MENU</b> → <b>B</b>   →  </div> <div style="margin-right: 20px;">→</div> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <b>T****</b> Broadcast         </div> <div style="margin-right: 20px;">→</div> <div style="margin-right: 20px;"> <div style="border: 1px solid black; padding: 2px 5px; display: inline-block;">0 0 0 6</div> <p>example: P6</p> </div> <div style="margin-right: 20px;">→</div> <div style="margin-right: 20px;"> <p>Enter the 4-digit number</p> </div> <div style="margin-right: 20px;">→</div> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <b>T0006</b> </div> </div>	
<ul style="list-style-type: none"> <li>● 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.</li> </ul>	
<b>Watch TV while waiting for update</b>	
<b>View the TV picture while searching for a teletext page</b> <p>Teletext automatically updates itself when new information becomes available.</p> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="margin-right: 20px;"> <b>MENU</b> → <b>Y</b>   →  </div> <div style="margin-right: 20px;">→</div> <div style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <div style="border-bottom: 1px solid black; height: 10px; width: 100%;"></div> </div> <p>Changes to TV screen temporarily (You cannot change the programme.)</p> </div> <div style="margin-right: 20px;">→</div> <div style="margin-right: 20px;"> <div style="border: 1px solid black; padding: 5px; width: 150px;"> <div style="border-bottom: 1px solid black; height: 10px; width: 100%;"></div> </div> <p>Appears when updating is completed</p> </div> <div style="margin-right: 20px;">→</div> <div style="margin-right: 20px;">  </div> <div style="margin-right: 20px;">→</div> <div> <p>View the updated page</p> </div> </div>	
<ul style="list-style-type: none"> <li>● The news page provides a function that indicates arrival of latest news ("News Flash").</li> </ul>	

# Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input.

● To connect the equipment ➔ p. 11

You can operate some functions of selected Panasonic external equipment with this remote control.



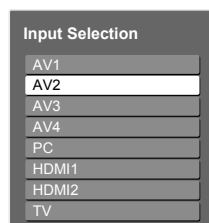
1

## Display the input selection menu



2

## Select the input mode of the connected equipment



② watch  
① select

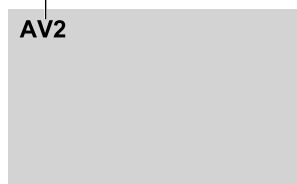
● You can also select the input using the AV button on the remote control or the side panel of the TV.  
Press the button repeatedly until the desired input is selected.

● You can label or skip each input mode ➔ “Input Labels” (p. 26)

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 ➔

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

	<b>Standby</b> Set to Standby mode / Turn on
	<b>Play</b> Playback videocassette / DVD
	<b>Stop</b> Stop the operations
	<b>Rewind / Skip / Search</b> VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward
	<b>Fast-forward / Skip / Search</b> VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward
	<b>Pause</b> Pause / Resume DVD: Press and hold to play at slow speed
	<b>Programme Up / Down</b> Select programme
	<b>Record</b> 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  during the following operations

Enter the appropriate code

See table below



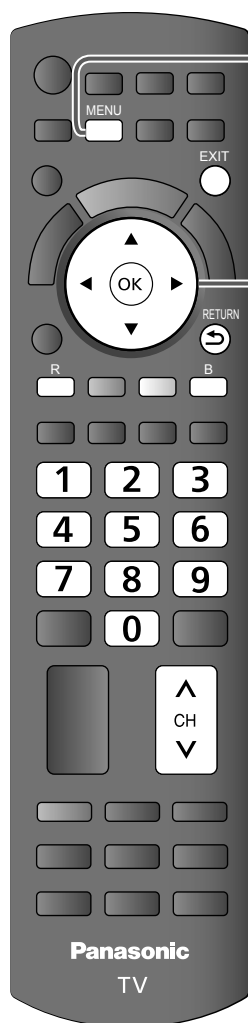
Type of equipment	Code
DVD Recorder / DVD Player/ Blu-ray Disc Player	70 (default)
Player theatre / Blu-ray Disc theatre	71
VCR	72
VIERA Link compatible equipments ➡ "VIERA Link Control" (p. 38)	73

#### 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.

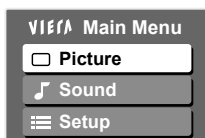


## 1 Display the menu

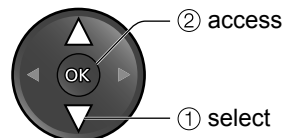


- Displays the functions that can be set (varies according to the input signal)

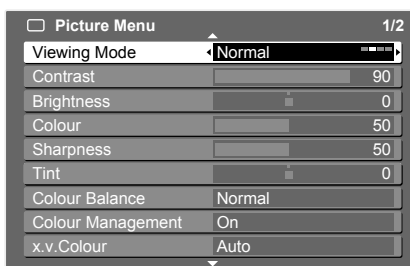
## 2 Select the menu



(example)



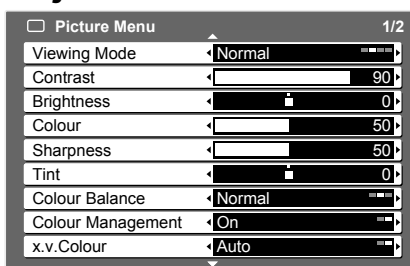
## 3 Select the item



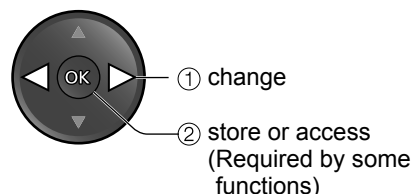
(example)



## 4 Adjust or select



(example)



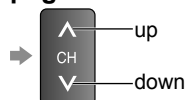
To return to TV at any time



To return to the previous screen

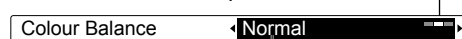


To change menu pages



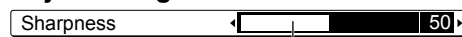
### Choose from among alternatives

Number and positions of alternatives



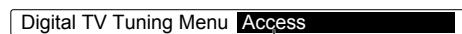
Changed

### Adjust using the slide bar



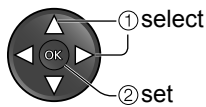
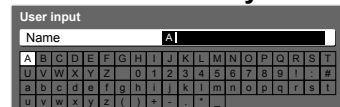
Moved

### Go to the next screen



Displays the next screen

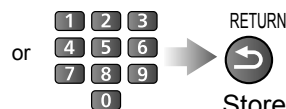
### Enter characters by free input menu



- To delete a character → R

### To reset the settings

- To reset the picture settings only  
→ "Reset Picture Defaults" in Picture Menu (p. 24)
- To reset the sound settings only  
→ "Reset Sound Defaults" in Sound Menu (p. 25)
- To reset all settings  
→ "Shipping Condition" (p. 32) in Setup Menu



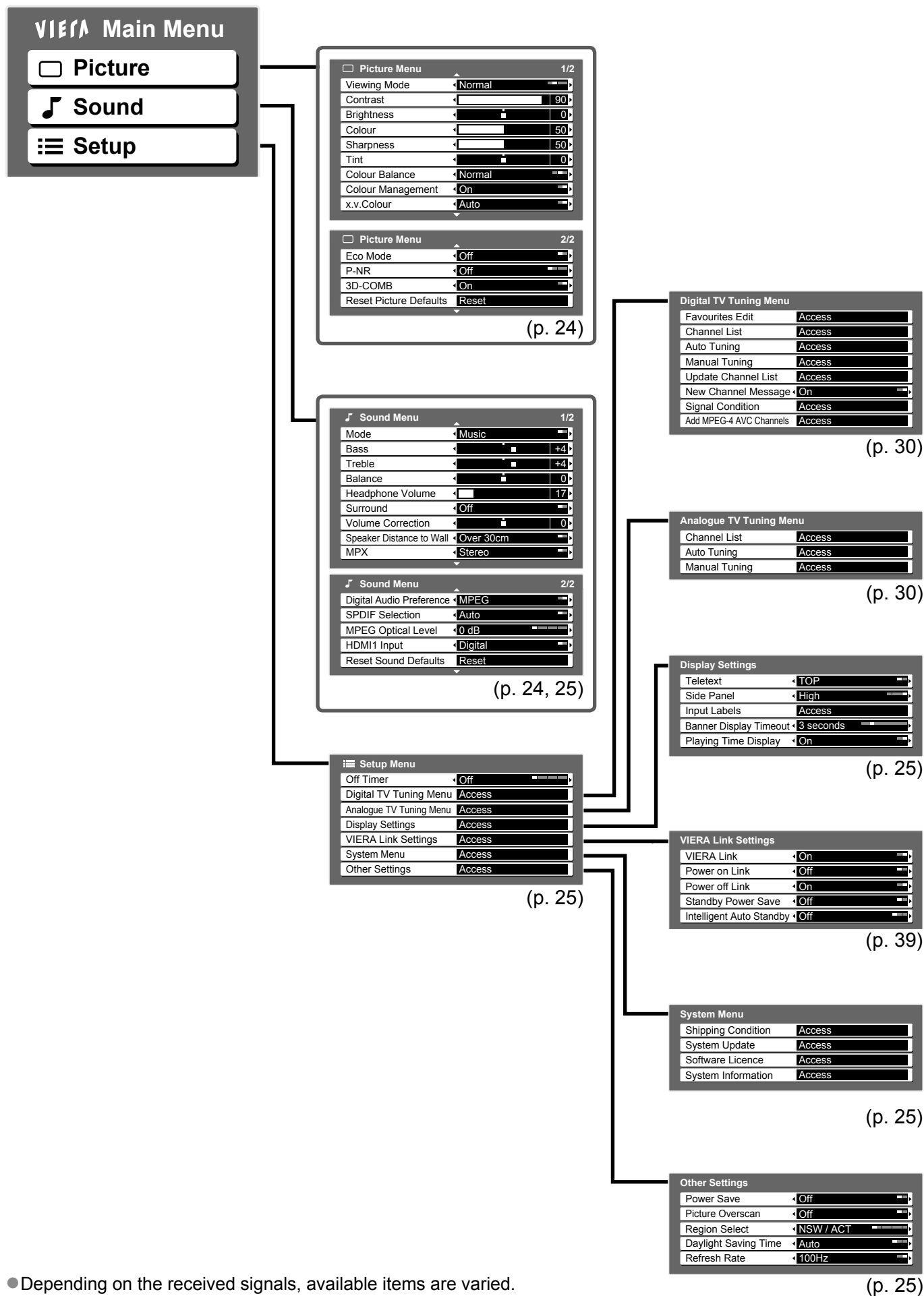
- To delete all characters → B

Every press changes the character by one. Leave it for a second to set the character, or press OK or any numeric button within a second.

See the table below for the corresponding characters for each numeric button.

Numeric buttons	Characters	Numeric buttons	Characters
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

## Overview



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

# How to Use Menu Functions

## Menu list

Menu	Item	Adjustments / Configurations (alternatives)
Picture	<b>Viewing Mode</b>	Basic picture mode ( <b>Dynamic / Normal / Cinema / Game</b> ) 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
	<b>Contrast, Brightness, Colour, Sharpness</b>	Increases or decreases the levels of these options according to your personal preference
	<b>Tint</b>	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
	<b>Colour Balance</b>	Allows you to set the overall colour tone of the picture ( <b>Cool / Normal / Warm</b> )
	<b>Colour Management</b>	Automatically adjusts colours to vivid ones ( <b>Off / On</b> ) ●Not valid on PC signal
	<b>x.v.Colour</b>	Increases the colour gradations ( <b>Off / Auto</b> ) This is effective when watching HD moving pictures with extended gamut (xvYCC) from external equipment. ●HDMI input mode only
	<b>Eco Mode</b>	Adjusts picture settings automatically dependent on ambient lighting conditions ( <b>Off / On</b> )
	<b>P-NR</b>	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture ( <b>Off / Min / Mid / Max</b> ) ●Not valid on PC signal
	<b>3D-COMB</b>	Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to "On" to display sharper and more accurate colours ( <b>Off / On</b> ) ●For PAL or NTSC signal reception only ●Not valid on S-Video, Component, PC, HDMI and SD Card
	<b>Reset Picture Defaults</b>	Press the OK button to reset the present Picture Menu to the default settings
Sound	<b>Mode</b>	Basic sound mode ( <b>Music / Speech</b> ) ●Set for each input signal
	<b>Bass</b>	Increases or decreases level to enhance or minimise lower, deeper sound output
	<b>Treble</b>	Increases or decreases level to enhance or minimise sharper, higher sound output
	<b>Balance</b>	Adjusts volume level of right and left speakers
	<b>Headphone Volume</b>	Adjusts the volume of the headphones
	<b>Surround</b>	Surround sound settings ( <b>Off / V-Audio</b> ) V-Audio: Provides a dynamic enhancer to simulate improved spatial effects ●Switching is also possible by the Surround button on the remote control (p. 10).
	<b>Volume Correction</b>	Adjusts volume of individual channel or input mode
	<b>Speaker Distance to Wall</b>	Adjusts the low frequency sound ( <b>Over 30cm / Up to 30cm</b> ) ●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.
	<b>MPX</b>	Selects stereo / monaural ( <b>Mono / Stereo</b> ) (p. 46) ●Normally: Stereo ●Stereo signal cannot be received: Mono ●M1 / M2: Available while mono signal is transmitted ●Analogue TV mode only
	<b>Digital Audio Preference</b>	Selects the initial setting for Audio tracks ( <b>Dolby D / MPEG</b> ) If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select Dolby D:A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio. MPEG:An audio compression method that compresses audio to small size without any considerable loss of audio quality. ●Digital TV mode only
	<b>SPDIF Selection</b>	Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal ( <b>Auto / PCM</b> ) Auto: Dolby Digital is output as Dolby Digital Bitstream. MPEG is output as PCM. PCM: Dolby Digital is output as PCM. MPEG is output as PCM. ●Digital TV mode only
	<b>MPEG Optical Level</b>	You can adjust the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting ●0dB to -12dB in -2dB reductions ●Digital TV mode only



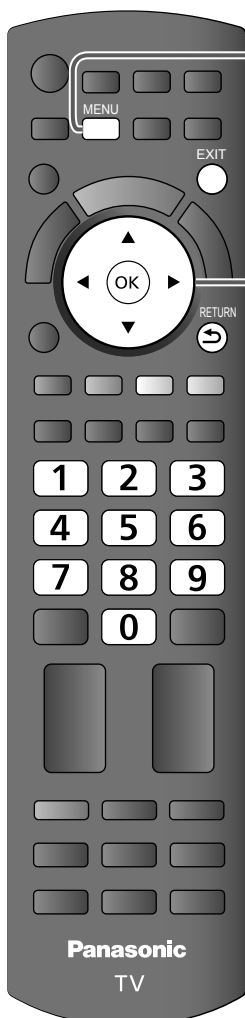
Menu	Item	Adjustments / Configurations (alternatives)
Sound	HDMI1 Input	Select to fit the input signal ( <b>Digital / Analogue</b> ) (p. 48) Digital: HDMI cable connection Analogue: HDMI-DVI adapter cable connection ●HDMI input mode only ●HDMI2 terminal is for digital signal only
	Reset Sound Defaults	Press the OK button to reset the present Sound Menu to the default settings
Setup	Off Timer	Sets the time the TV automatically turns Off ( <b>Off / 15 / 30 / 45 / 60 / 75 / 90 minutes</b> ) (p. 15)
	Tuning Menu	Favourites Edit
		Channel List
		Auto Tuning
		Manual Tuning
		Update Channel List
		New Channel Message
		Signal Condition
		Add MPEG-4 AVC Channels
	Display Settings	Teletext
		Side Panel
		Input Labels
		Banner Display Timeout
		Playing Time Display
	VIERA Link Settings	VIERA Link
		Power on Link
		Power off Link
		Standby Power Save
		Intelligent Auto Standby
	System menu	Shipping Condition
		System Update
		Software Licence
		System Information
	Other Settings	Power Save
		Picture Overscan
		Region Select
		Daylight Saving Time
		Refresh Rate

●A different menu will be displayed while PC, DVI to HDMI adapter cable or SD Card is used. (p. 33 - 37)

●Only available items can be selected.

# 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. (p. 20)



**1 Display the menu**  
MENU

**2 Select "Setup"**  
VIERA Main Menu  
Picture  
Sound  
Setup

**3 Select "Display Settings"**  
Setup Menu  
Off Timer Off  
Digital TV Tuning Menu  
Display Settings Access  
VIERA Link Settings  
System Menu  
Other Settings

**4 Select "Input Labels"**  
Display Settings  
Teletext TOP  
Side Panel High  
Input Labels Access  
Banner Display Timeout 3 seconds  
Playing Time Display On

**5 Select an input terminal and set**  
Input Labels  
AV1 AV1  
AV2 AV2  
AV3 AV3  
AV4 AV4  
PC PC  
HDMI1 HDMI1  
HDMI2 HDMI2  
Digital TV Digital TV  
Analogue TV Analogue TV

To return to TV → EXIT

② access  
① select

② access  
① select

② access  
① select

② set  
① select

The labels you set will be displayed in "Input Selection" menu (p. 20) or banner.

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

## User input

You can name each input terminals freely.

Select "User input"

① select  
② access

User input  
Name A1

(maximum: ten characters)  
You can set characters by using numeric buttons.  
→ p. 22

Set characters

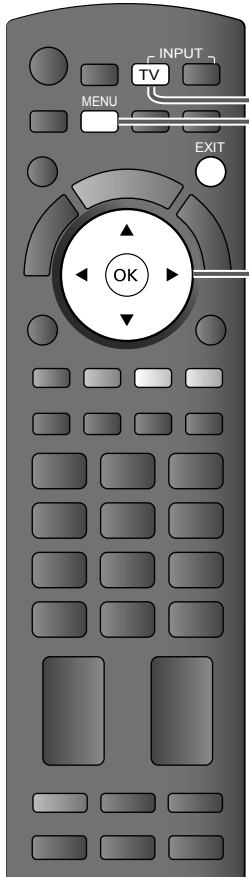
① select  
② set

RETURN

Store

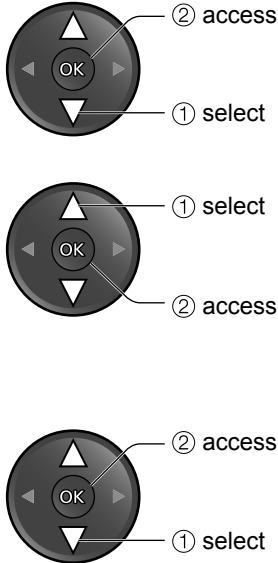
# Digital TV Settings

Digital TV Settings provide access to various advanced features.



- 1 If in Analogue TV mode  
**Select Digital TV mode**  
TV
- 2 **Display the menu**  
MENU
- 3 **Select "Setup"**  
VIERA Main Menu  
Picture  
Sound  
Setup
- 4 **Select "System Menu"**  
Setup Menu  
Off Timer Off  
Digital TV Tuning Menu  
Display Settings  
VIERA Link Settings  
System Menu Access  
Other Settings
- 5 **Select "System Update"**  
System Menu  
Shipping Condition  
System Update Access  
Software Licence  
System Information
- 6 **Set**

To return to TV → EXIT



- ② access, ① select
- ① select, ② access
- ② access, ① select

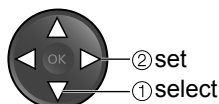
## Update TV's software system **System Update**

Download new software to TV.

● For details → p. 46

**If System Update is performed, the software will be updated. It may change TV functions. If you do not wish to do so, set "Auto Update Search in Standby" to Off.**

Select "Auto Update Search in Standby" and then set "On" or "Off"



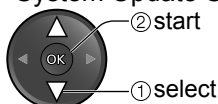
● On: Automatically performs a search in standby and downloads an update, if any software updates are available

### Note

● When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM (p. 46) when "Auto update Search in Standby" is set to "On". These sounds are normal.

### To update immediately

Select "System Update Search Now"



Searches for an update (for several minutes.) and displays a corresponding message if any

Download



● Download may take for about 1 hour.

### Note

● During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.

# Editing Channels

You can make your favourite channel lists, skip unwanted channels, etc.

**1 Select Digital TV or Analogue TV**  
TV

**2 Display the menu**  
MENU

**3 Select “Setup”**  
VIERA Main Menu  
Picture  
Sound  
Setup

**4 Select “Digital TV Tuning Menu” or “Analogue TV Tuning Menu”**  
Setup Menu  
Off Timer Off  
Digital TV Tuning Menu Access  
Display Settings  
VIERA Link Settings  
System Menu  
Other Settings

**5 Select “Favourites Edit” or “Channel List”**  
Digital TV Tuning Menu  
Favourites Edit Access  
Channel List Access  
Auto Tuning  
Manual Tuning  
Update Channel List  
New Channel Message On  
Signal Condition

**6 Set**

To return to TV → EXIT

② access  
① select

② access  
① select

② access  
① select

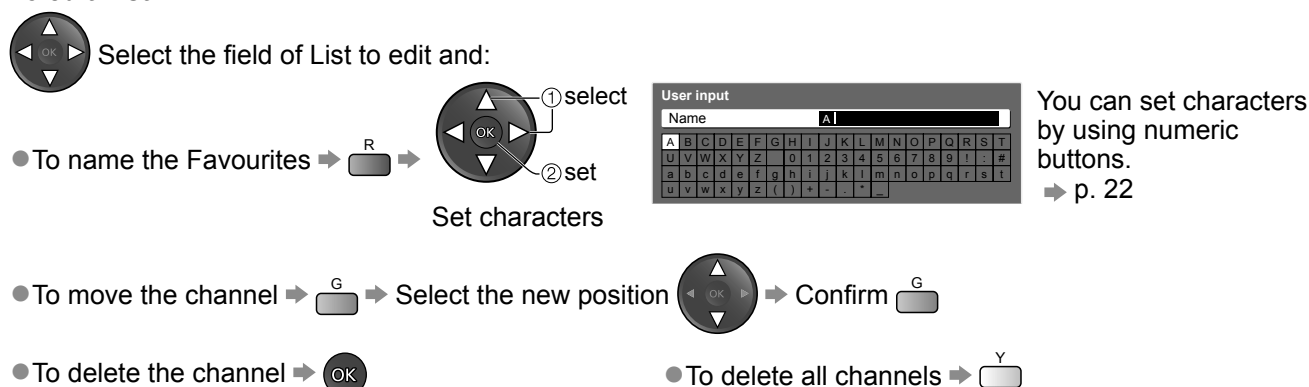
## List favourite channels (Digital TV mode) **Favourites Edit**

Create your favourite channel list (Favourites) from various broadcasters (up to 4: Favourites1 to 4). The list is added to "Favourites" list in TV Guide (p. 17) and information banner (p. 15) and then easily accessed.

### Select a channel and add it to the list



### To edit List



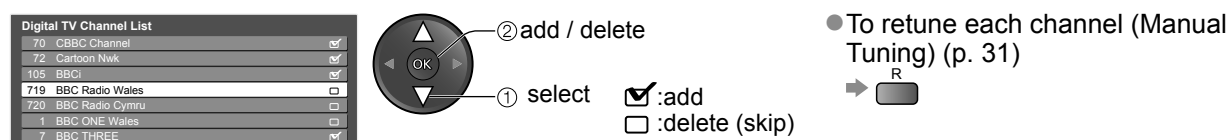
### Note

- Channel numbers are defined by the broadcaster and cannot be changed.
- Hidden channels (see below) can be selected but not viewed.

## Skip unwanted channels / Edit channels (Change name, Move) **Channel List**

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

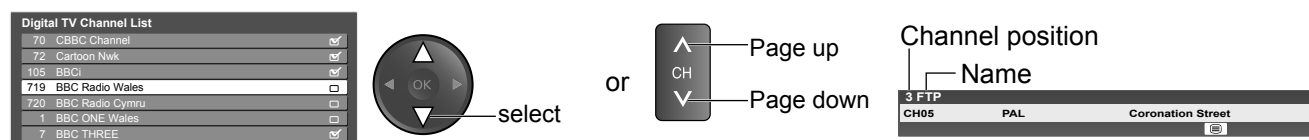
### Select a channel and add / delete



You can edit channels.

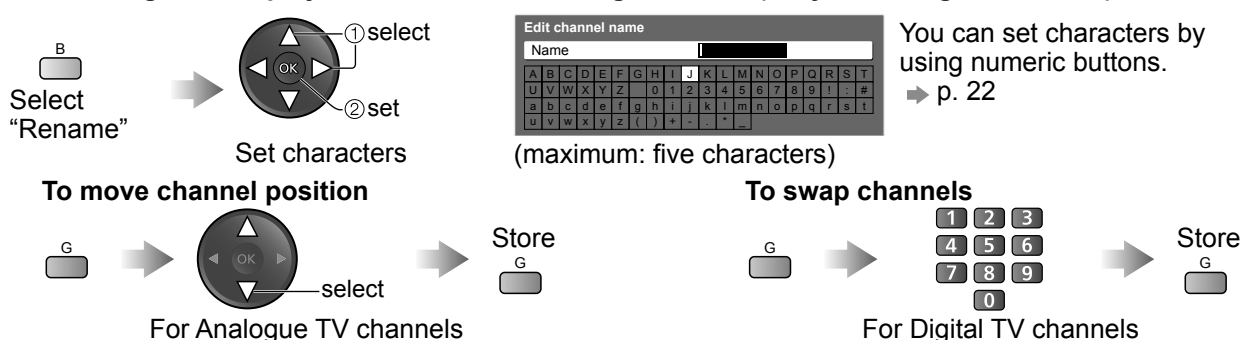
- If a VCR is connected only with the RF cable, edit "VCR". (Analogue TV mode)

### ① Select a channel to edit



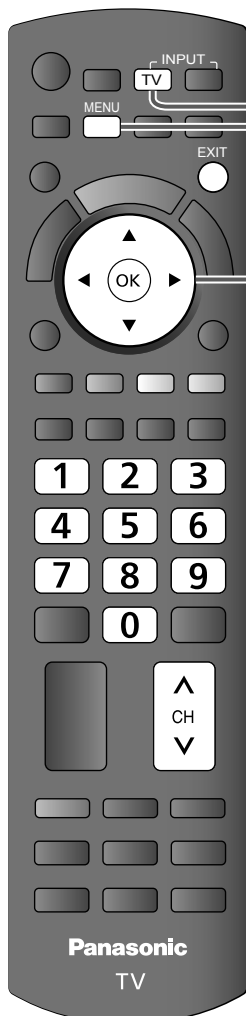
### ② Edit

To change the displayed name when selecting channels (Only in Analogue TV mode)



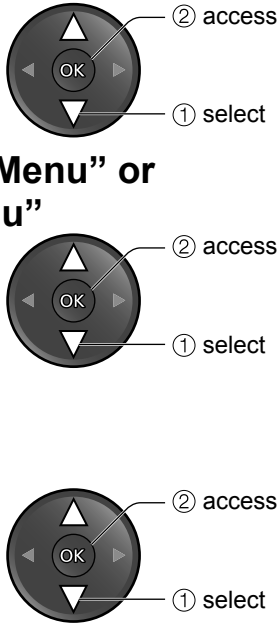
# Tuning Channels

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



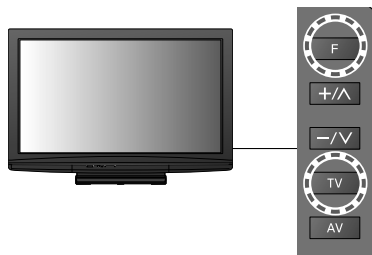
- 1 Select Digital TV or Analogue TV**  
TV
- 2 Display the menu**  
MENU
- 3 Select "Setup"**  
VIERA Main Menu  
Picture  
Sound  
Setup
- 4 Select "Digital TV Tuning Menu" or "Analogue TV Tuning Menu"**  
Setup Menu  
Off Timer Off  
Digital TV Tuning Menu Access  
Display Settings  
VIERA Link Settings  
System Menu  
Other Settings
- 5 Select a function**  
Digital TV Tuning Menu  
Favourites Edit  
Channel List  
Auto Tuning Access  
Manual Tuning Access  
Update Channel List Access  
New Channel Message On  
Signal Condition Access
- 6 Set**

To return to TV → EXIT



**For Auto Tuning, using the buttons on the side panel of the TV (p. 9)**

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

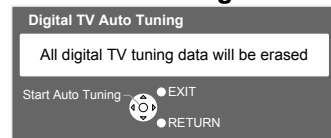


## Set all Digital TV or Analogue TV channels automatically Digital TV Auto Tuning or Analogue TV Auto Tuning

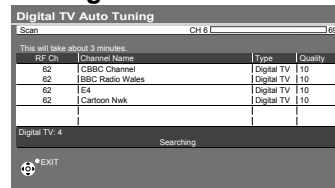
Automatically retune all Digital TV or Analogue TV channels received in the area.

- Only Digital TV channels are retuned in Digital TV mode.
- Only Analogue TV channels are retuned in Analogue TV mode.

### Start Auto Tuning



### Settings are made automatically



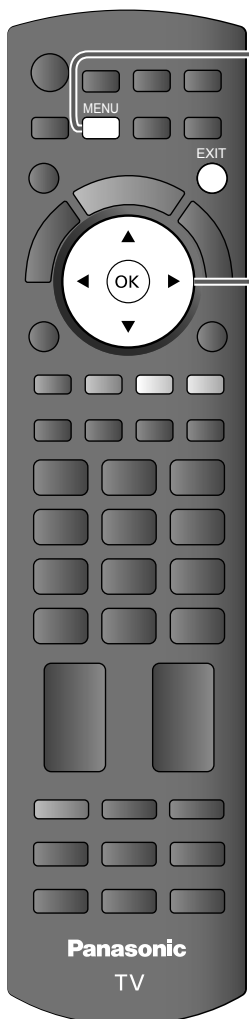
- All the previous tuning settings are erased.
- When the operation is completed, the channel at channel position "1" will be displayed.
- Search begins in the order from the lower channels to the higher channels. Channels received during this process are added to the list. (p. 31)
- If tuning has not been done completely → "Digital TV Manual Tuning", "Analogue TV Manual Tuning" (p. 31)



# Restore Settings

## (Shipping Condition)

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

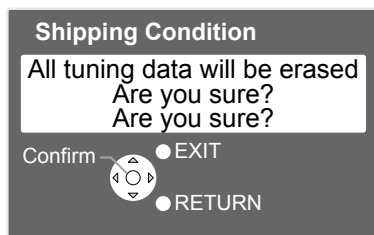


- 1 Display the menu**  
MENU
- 2 Select "Setup"**  
VIERA Main Menu  
Picture  
Sound  
Setup
- 3 Select "System Menu"**  
Setup Menu  
Off Timer Off  
Digital TV Tuning Menu  
Display Settings  
VIERA Link Settings  
System Menu Access  
Other Settings
- 4 Select "Shipping Condition"**  
System Menu  
Shipping Condition Access  
System Update  
Software Licence  
System Information
- 5 Set**

To return to TV → EXIT

### Restore Settings Shipping Condition

#### ① Check the message and reset



#### 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

- ➔ "Digital TV Auto Tuning" or "Analogue TV Auto Tuning" (p. 30)



# Displaying PC Screen on TV

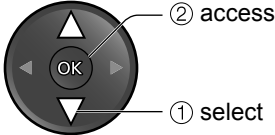
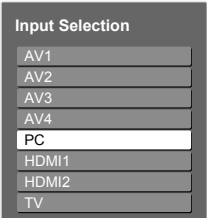
The screen of the PC connected to the TV can be displayed on the TV.  
You can also listen to PC sound with the audio cable connected.

●To connect PC ➔ p. 44



1 Select the external input  
AV

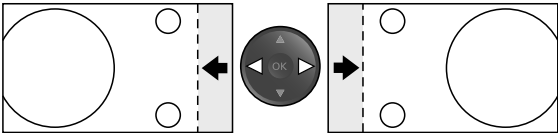
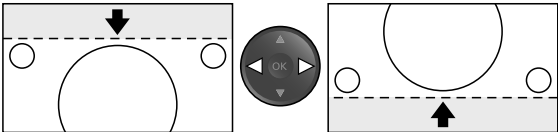
2 Select "PC"



- Corresponding signals ➔ p. 48
- 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	<div><div></div>①</div> <div>① and ② repeatedly adjusted</div> <div><div></div>②</div>
		W/B High B	White balance of bright blue area	
		W/B Low R	Adjusts the white balance for blue areas	
		W/B Low B	White balance of dark blue area	
		Gamma	(S Curve / 2.0 / 2.2 / 2.5)	
		Reset PC Settings	Press the OK button to reset to the default Picture settings	
Setup	PC Setup	Input Resolution	Switches to a wide view ●VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,280 × 768 pixels, 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 / SOG) ●H & V : Horizontal and Vertical sync from your PC (Most common sync format) SOG : Sync on Green sync from your PC	
		Reset PC Settings	Press the OK button to reset to the default Setup settings	

●Other items ➔ p. 24 and p. 25

Restore Settings (Shipping Condition)  
Displaying PC Screen on TV

Advanced

# HDMI Functions

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. 44).

## Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- Audio settings can be made on the “HDMI1 Input” menu screen. (p. 25)
- 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 in the HDMI table (p. 48) 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 only with 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. 48.

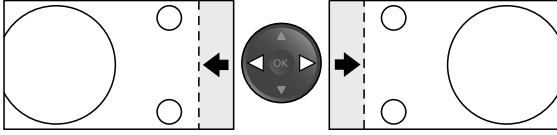
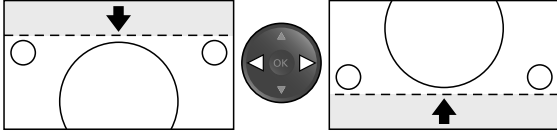
## DVI connection

- If the external equipment has only a DVI output, connect to the HDMI1 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).

## DVI Position Settings

If the picture position is not fit to the screen during the DVI connection, adjust the position on “DVI Position Settings” in Setup Menu. The settings are memorized for each HDMI terminals and input signals.

- To make settings ➡ “How to Use Menu Functions” ① to ④ (p. 22)

Menu	Item		Adjustments	
Setup	DVI Position Settings	H-pos	Adjusts horizontal position	
		V-pos	Adjusts vertical position	
		Reset DVI Position Settings	Press the OK button to reset to the default Setup settings	

(\*1): The HDMI logo is displayed on HDMI-compliant equipment.

(\*2): Enquire at your local digital equipment retailer shop.

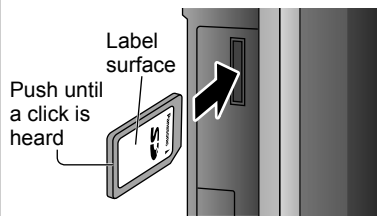
# Viewing from SD Card

## (VIERA IMAGE VIEWER)

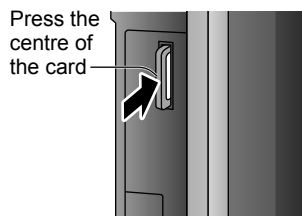
Photo View: Still images recorded by digital cameras will be displayed.

- During the operation, no signals are output from any of the AV terminals.
- "Date" shows the date on which the recording was made by the digital camera or digital video camera. The file without record of the date is shown "\*\*\*/\*\*/\*\*\*\*".
- For details on SD Cards ➡ p. 47

### To insert SD Card



### To remove SD Card



## Photo View

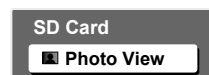


1

**Insert the SD Card**

2

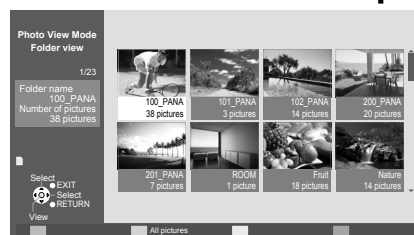
**Select "Photo View"**



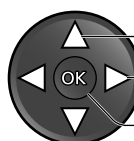
OK

3

**Select a folder to display the thumbnail**



(Folder view)



① select

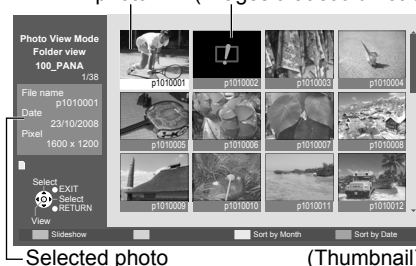
② thumbnail

- The files which are not in a folder will be collected to the folder named "/".
- To display all the photos ➡ p. 37

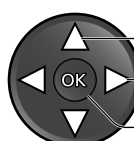
4

**Select a photo from the thumbnail to be viewed**

Selected photo Error display (images that could not be loaded, etc.)



Selected photo information is displayed (Thumbnail)

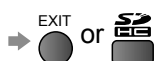


① select

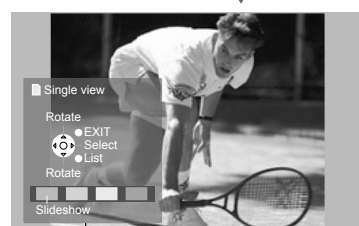
② single view

- Slideshow ➡ p. 36
- To sort by date or month recorded ➡ p. 37

**To return to TV**



**To return to the previous screen**



Operation guide (Single view)

**Displayed one at a time**

- To display / hide the operation guide



To the previous photo

Rotate 90° (counter-clockwise)

To the next photo

Rotate 90° (clockwise)

- To return to thumbnail ➡ RETURN

# Viewing from SD Card

## (VIERA IMAGE VIEWER)

Slideshow

Start Slideshow (operate in step ④)

Select the photo for the first view

Start Slideshow

- To pause →
- To return to Single view →

Note

- Slideshow is done within the thumbnail.

Slideshow settings (operate in Photo View Mode)

Display the menu

→

VIERA Main Menu

Picture

Sound

Viewing Setup

② access  
① select

→

Select the items and set

Viewing Setup

Back Ground Music → Type1

Interval → 5 seconds

Repeat → Off

② set  
① select

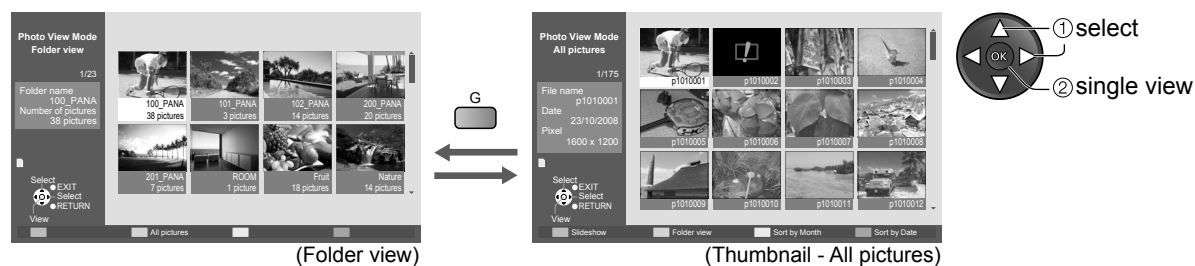
- Other Items → p. 24 - 25

Menu	Item	Adjustments / Configurations (alternatives)
Viewing Setup	Back Ground Music	Selects the back ground music during the slideshow (Off / Type1 / Type2 / Type3)
	Interval	Selects slideshow interval (5 / 10 / 15 / 30 / 60 / 90 / 120 seconds)
	Repeat	Slideshow repeat (Off / On)

36

## To display all the photos

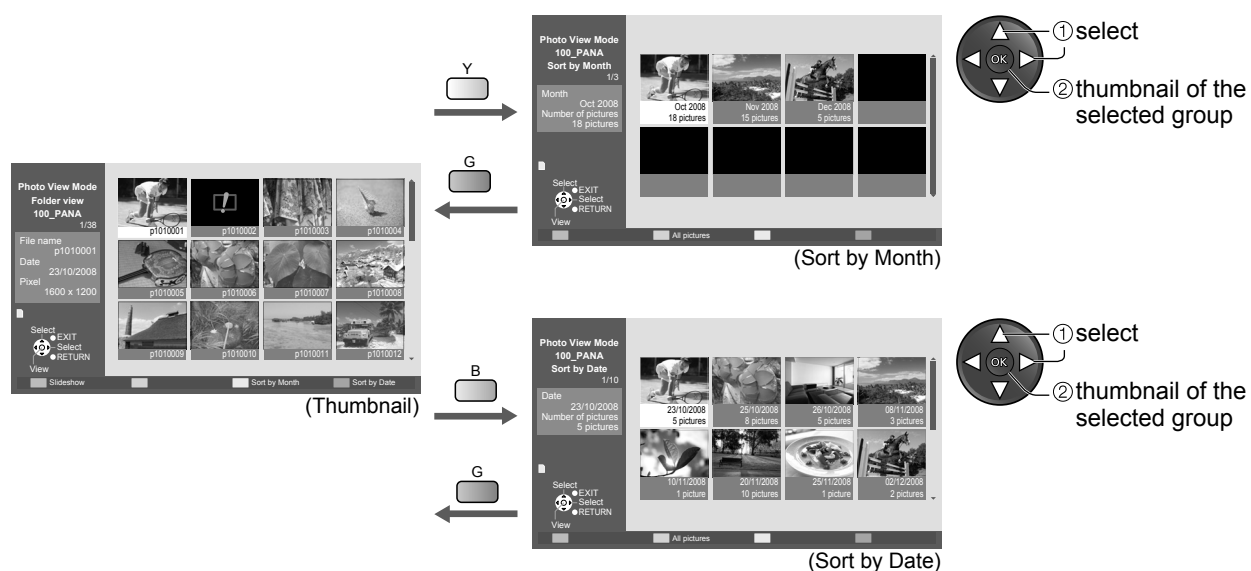
Display the thumbnail of all the photos in SD Card.



## 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".



# 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

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
Features						
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

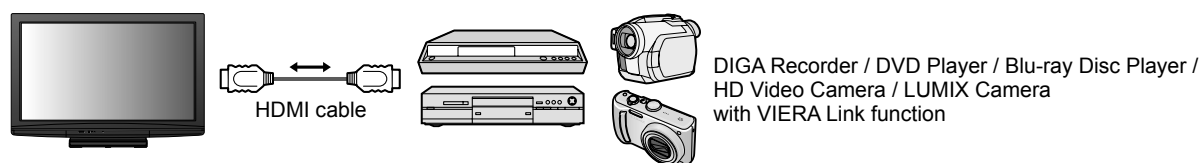
\*6: available with DIGA Recorder which has HDD

\*7: while playingback a disc

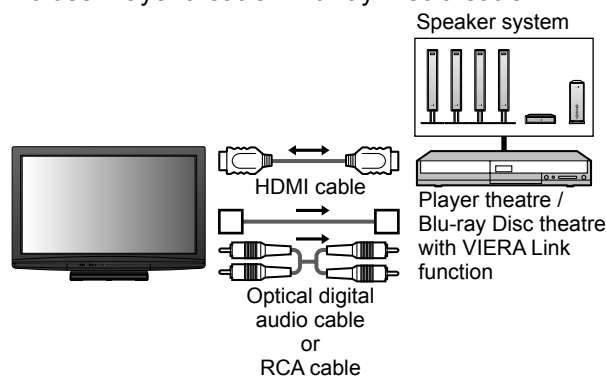
\*8: except for watching a disc

### Connection

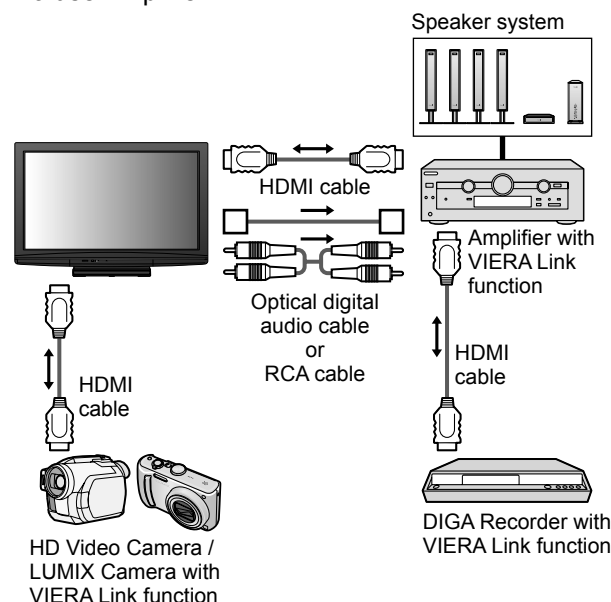
- To use DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera



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



- To use Amplifier:



### 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 or HDMI2 terminal via an HDMI cable.
- For Player theatre / Blu-ray Disc theatre / Amplifier, connect to HDMI1 or HDMI2 terminal via an HDMI cable and/or either the optical digital audio cable or RCA cable for audio output from the TV.
- Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilized.  
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" (p. 25)
- Set up the TV ➔ **After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1 or HDMI2 (p. 20), 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	
<b>Set Power on Link "On" in Setup Menu to use this function ➔ "Power on Link" (p. 25)</b> 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	
<b>Set Power off Link "On" in Setup Menu to use this function ➔ "Power off Link" (p. 25)</b> When the TV is set to Standby mode, the connected equipment is also automatically set to Standby. <ul style="list-style-type: none"><li>● This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.</li></ul>	
Reduce unnecessary power consumption in standby <b>Standby Power Save</b>	
<b>Set Standby Power Save "On" in the Setup Menu to use this function ➔ "Standby Power Save" (p. 25)</b> 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. <ul style="list-style-type: none"><li>● This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption.</li></ul>	
Auto standby for unnecessary equipment <b>Intelligent Auto Standby</b>	
<b>Set Intelligent Auto Standby "On (With reminder)" or "On (No reminder)" in the Setup Menu to use this function ➔ "Intelligent Auto Standby" (p. 25)</b> When the TV is on, the connected equipments not in use go into Standby mode automatically to reduce the power consumption. <ul style="list-style-type: none"><li>● If you select "On (With reminder)", the on screen message will be displayed to be noticed before working this function.</li></ul>	

# VIERA Link “HDAVI Control™”

Features available (Using VIERA Link Menu)

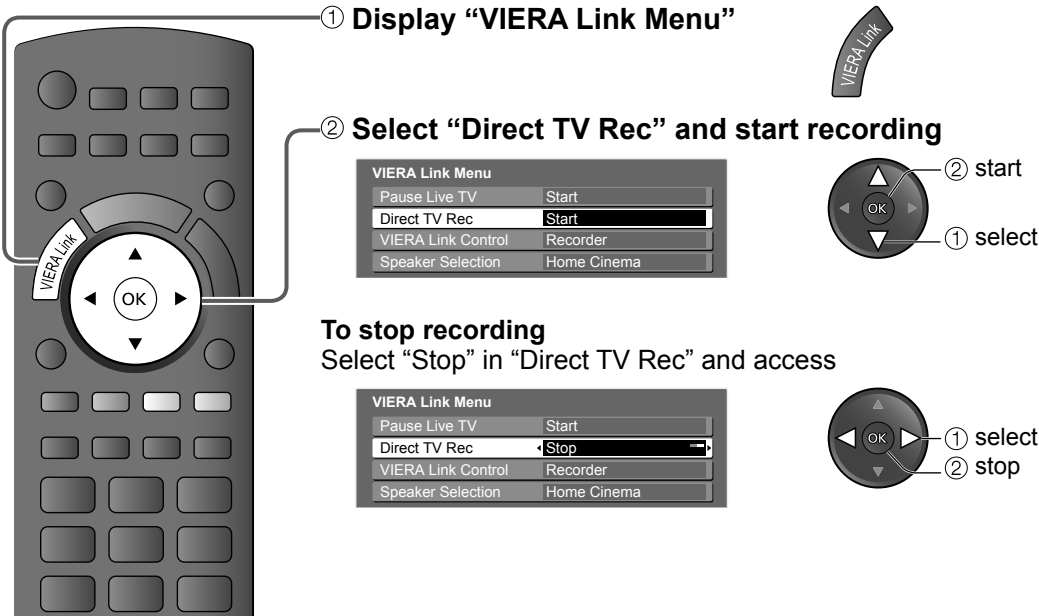
## Direct TV Recording - What you see is What you record **Direct TV Rec**

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. 38)

① Display “VIERA Link Menu”

② Select “Direct TV Rec” and start recording



**To stop recording**  
Select “Stop” in “Direct TV Rec” and access



## Pause Live TV programme **Pause Live TV**

You can pause the live TV programme and resume later.

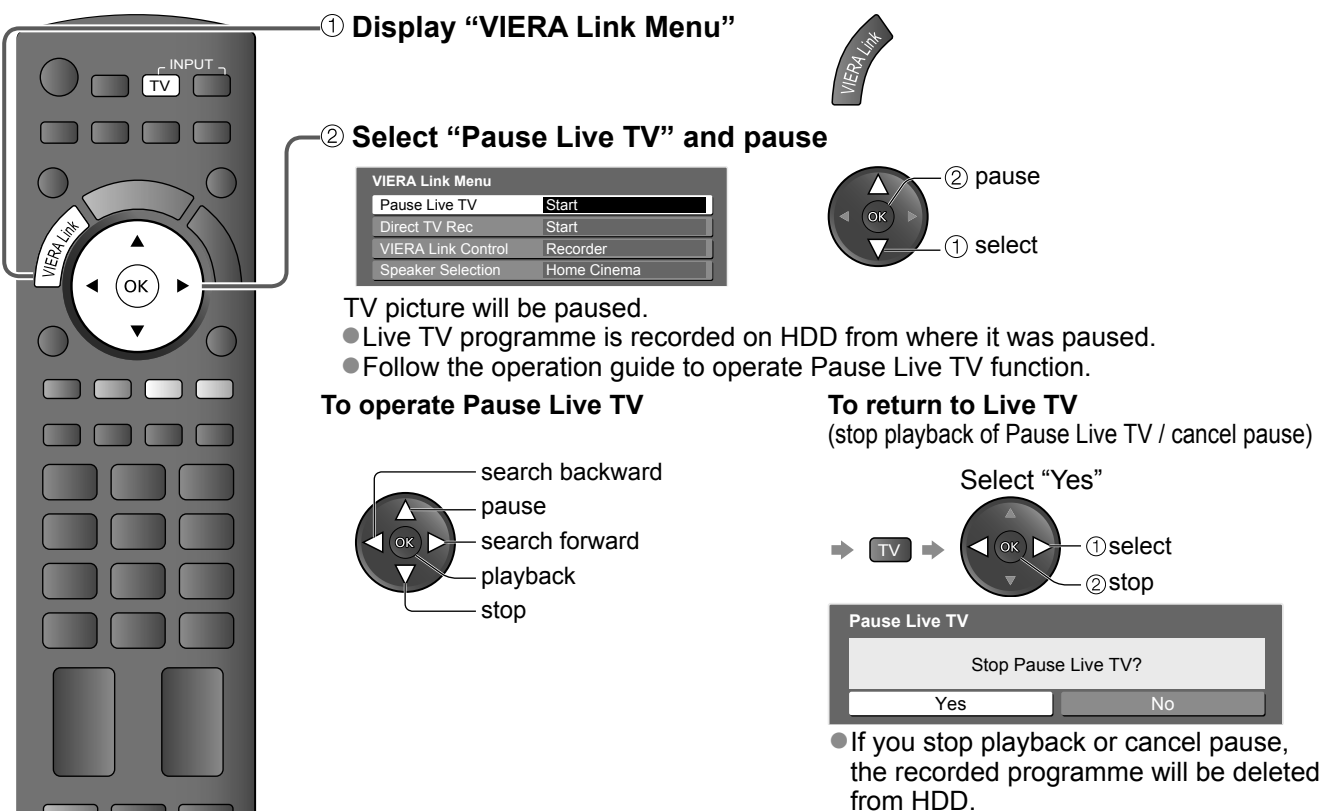
Live TV programme will be recorded on HDD of the connected DIGA Recorder.

- 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. 38)

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.

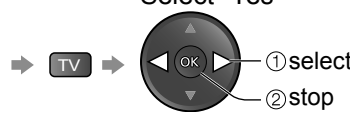
**To operate Pause Live TV**



search backward  
pause  
search forward  
playback  
stop

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

Select “Yes”



① select  
② stop

**Pause Live TV**

Stop Pause Live TV?

Yes No

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




## 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. 38)
- For details of the operations for the connected equipment, read the manual of the equipment.

#### Access and operate the menu of the equipment



- Display “VIERA Link Menu”**
- Select “VIERA Link Control”**

VIERA Link Menu	
Pause Live TV	Start
Direct TV Rec	Start
VIERA Link Control	Recorder
Speaker Selection	Home Cinema

- Select the equipment you want to access**  
The type of the connected equipment is displayed.  
Select the type of the equipment and access.

VIERA Link Menu	
Pause Live TV	Start
Direct TV Rec	Start
VIERA Link Control	Recorder
Speaker Selection	Home Cinema

**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)

- Operate the connected equipment**
  - Set the remote control code to “73” (p. 21)
  - Follow the operation guide

To display the operation guide ➔	OPTION	Store / set / access ➔	OK
Move the cursor / select the menu ➔	UP/DOWN	Return to the previous menu ➔	RETURN
Move the cursor / access / adjust ➔	LEFT/RIGHT	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.



**Recorder1-2 / Player1-2**

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 HDMI1 and HDMI2, one connected to HDMI1 is displayed as Recorder1 and the other as Recorder2.

**If you access the invalid equipment**  
When the equipment with “HDAVI Control” function is connected



**Recorder1-2 / Player1-2**

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.

# VIERA Link “HDAVI Control™”

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. 38)

### 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  
➔  (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

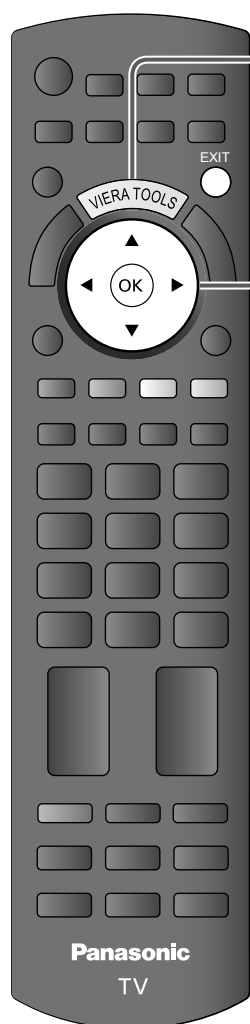
- If you wish to enjoy the multi-channel sound (e.g. Dolby Digital 5.1ch) via an Amplifier, connect with HDMI cable and Optical digital audio cable (p. 38), and then select “Home Cinema”.  
To enjoy the sound from the DIGA Recorder in multi-channel sound, connect an HDMI cable from the DIGA Recorder to the Amplifier (p. 38).
- 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.

### Note

- These functions 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.
- “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. 25)

# VIERA Tools

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



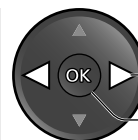
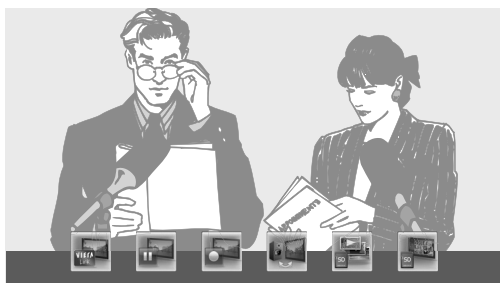
1

## Display VIERA Tools Menu



2

## Select a feature



① select

② access

3

## Follow the operation of each feature



VIERA Link Control

VIERA Link Control (p. 41)

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. 40)

A live TV programme can be paused and resumed later.



Direct TV Rec

Direct TV Rec (p. 40)

What is on TV can be recorded immediately.



Speaker Selection

Speaker Control (p. 42)

Theatre speaker can be set.



Slideshow

SD card slideshow (p. 36)

Photo slideshow will start.



Photos

SD card photo view (p. 35)

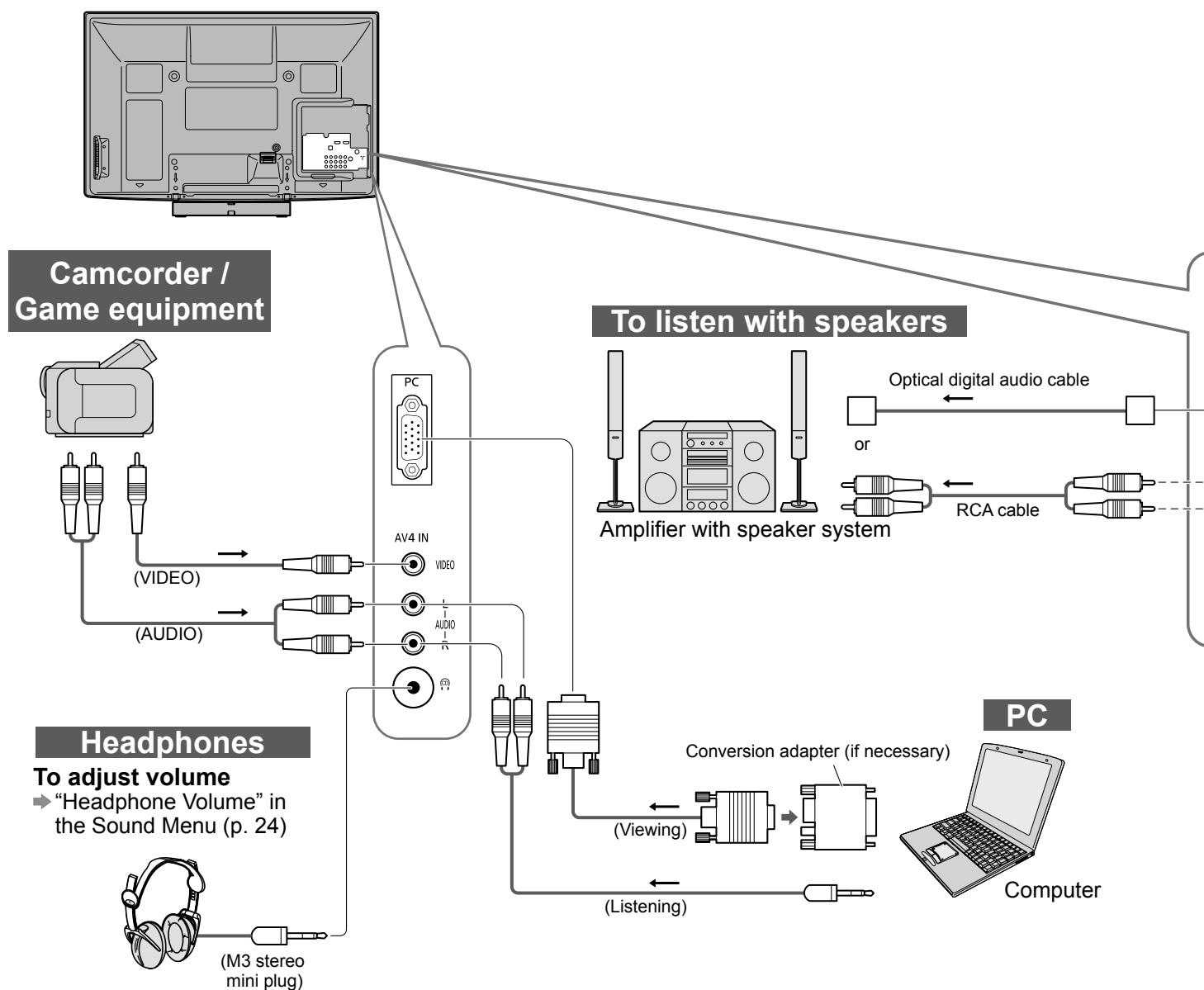
Photo folders are displayed.

### To return to TV



# External Equipment

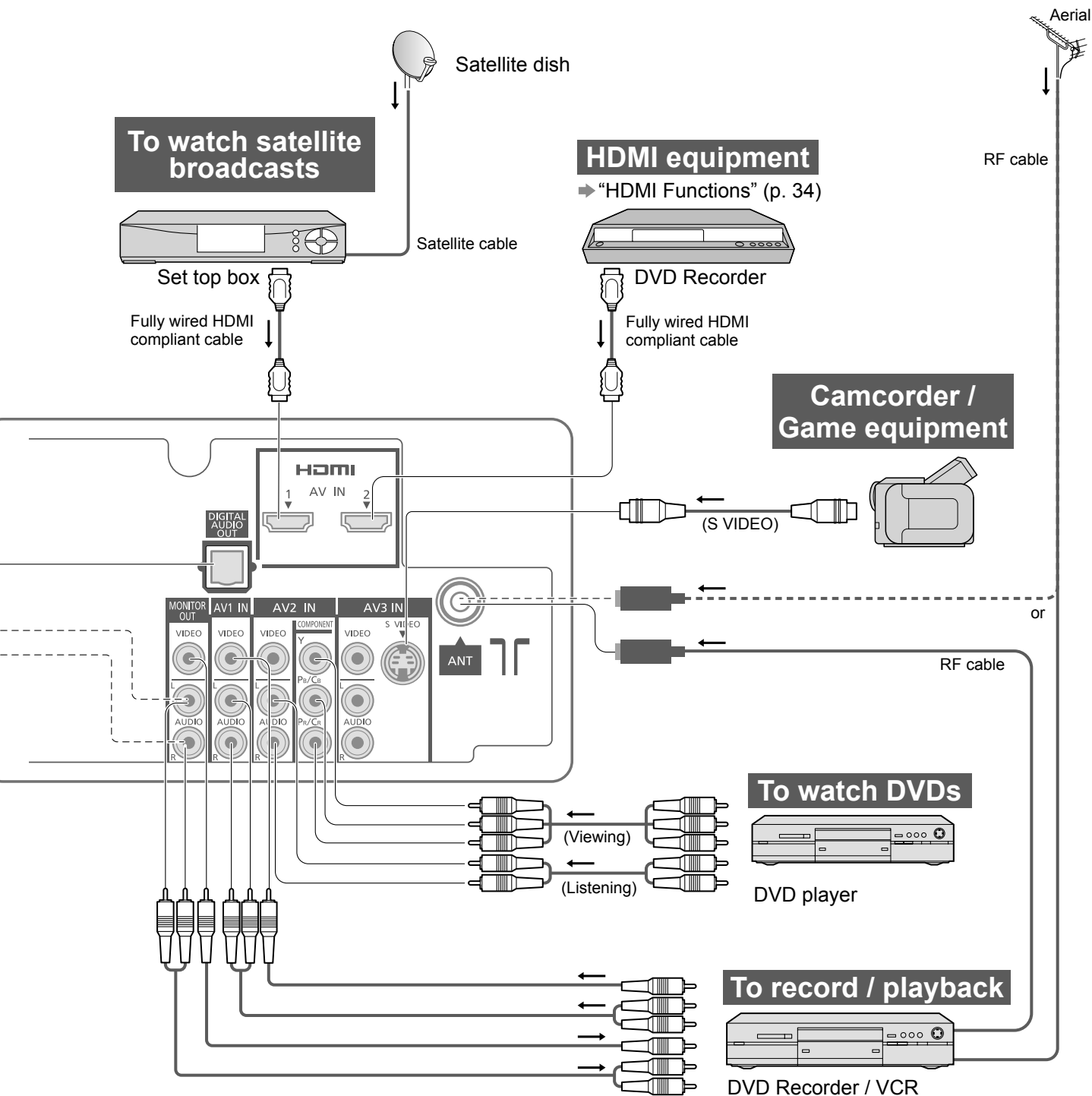
These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 51).



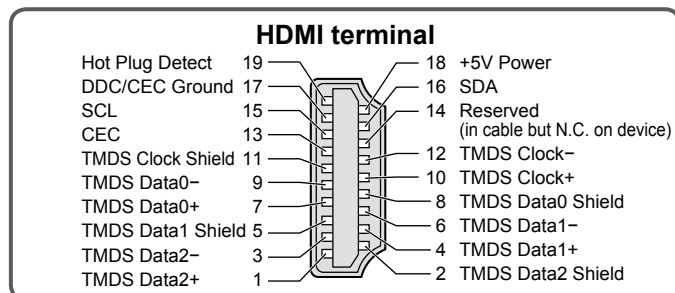
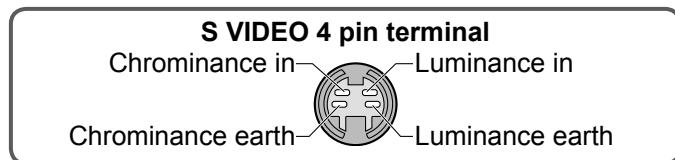
**Types of connectable equipment to each terminal**

Terminal	AV1 IN	AV2 IN	AV3 IN	AV4 IN (Side of TV)
	VIDEO L AUDIO R	VIDEO COMPONENT Y L AUDIO R	VIDEO S-VIDEO L AUDIO R	AV4 IN VIDEO L AUDIO R
Recording / Playback (equipment)				
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	DIGITAL AUDIO OUT	HDMI	
			1	2
	○			
			○	○
			○	○
			○	○
			○	○
	○	○	○	○



- Connect the S VIDEO or VIDEO terminal when using AV3 / AV4 IN terminal.
- Connect the COMPONENT or VIDEO terminal when using AV2 IN terminal.

# Technical Information

## Channel Allocation (Analogue TV mode)

CH Display / Receive Channel			
CH 0 - CH 5	S 2 - S 10	CH 5A	CH 6 - CH 9
CH 9A	CH 10 - CH 12	S 11 - S 44	CH 20 - CH 75

## Rating (Digital TV mode)

Rating	Meaning	Rating	Meaning
-	Not classified	M	Mature
P	Pre school	MA 15+	Mature Adult 15+
C	Children	AV 15+	Adult strong Violence 15+
G	General	R	Restricted 18+
PG	Parental Guidance recommended		

## Updating the software system (Digital TV mode)

Update system software to ensure that you have latest version software.

If there is an update available, a notification banner is displayed when the channel has the update information.

- To download new software, press "OK" ➡ Downloading (approx. 1 hour)

If you choose not to download, press "EXIT".

### To update automatically

Set "Auto Update Search in Standby" to "On" (p. 27)

If there is a new version software being broadcast, the TV will download this automatically.

- The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every morning under the following condition.

Standby (TV turned Off with the remote control)

Recording is not in progress.

### To update manually

Perform "System Update Search Now" (p. 27)

If there is an update available, a notification banner is displayed.

### Note

- During downloading, do not turn Off the TV or touch any buttons.  
(The TV is automatically activated after downloading is completed.)
- When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM when "Auto update Search in Standby" (p. 27) is set to "On". These sounds are normal.

## Stereo / Bilingual Sound Selection (Analogue TV mode)



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.

## 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

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 - 8 × 8 to 30,719 × 17,279 pixels

- Compliant card type (maximum capacity): SDHC Card (32 GB), SD Card (2 GB) and 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 JPEG 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 datas 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	<ul style="list-style-type: none"> <li>● The file is broken or unreadable.</li> <li>● The TV does not support the format. (For the applicable formats and data, see above.)</li> </ul>
Please confirm the SD card is OK	<ul style="list-style-type: none"> <li>● The inserted SD card has a problem.</li> </ul>
No SD card inserted	<ul style="list-style-type: none"> <li>● Insert a SD Card.</li> </ul>
No valid file to play	<ul style="list-style-type: none"> <li>● The card has no data.</li> </ul>
Over 9999 pictures found. (max. is 9999)	<ul style="list-style-type: none"> <li>● Maximum valid number of photos is 9,999.</li> </ul>

# Technical Information

## PC connection

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

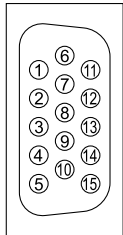
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
- A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

### 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

Model No.	TH-P42X14A	TH-P50X14A
<b>Aspect</b>		
<b>4:3</b>	768 × 768 pixels	1,024 × 768 pixels
<b>16:9</b>	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)

## Input signal that can be displayed

### COMPONENT (Y, P<sub>B</sub>/C<sub>B</sub>, P<sub>R</sub>/C<sub>R</sub>), 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

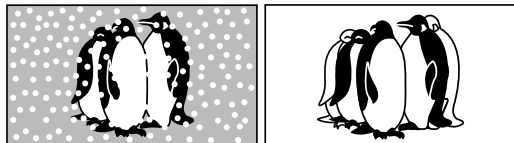
- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- Applicable input signal for PC is basically compatible to VESA standard timing.
- PC signal is magnified or compressed for display, so that it may not be possible to show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

## Neither image nor sound is produced

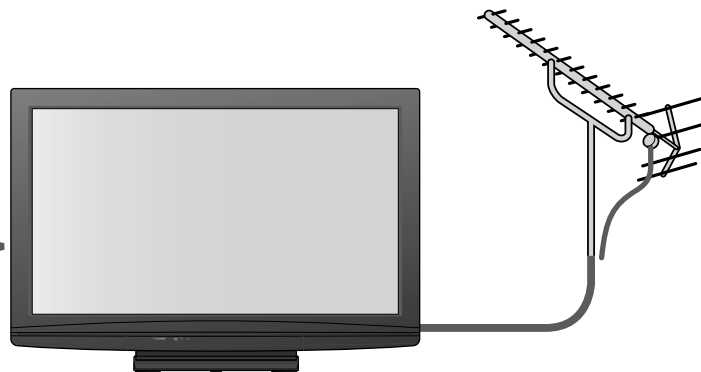
- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
- Check Picture Menu (p. 24) and volume.

## An error message appears

- Follow the message's instructions.
- If the problem persists, contact your local Panasonic dealer.

## "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. 38)



## Contrast is reduced

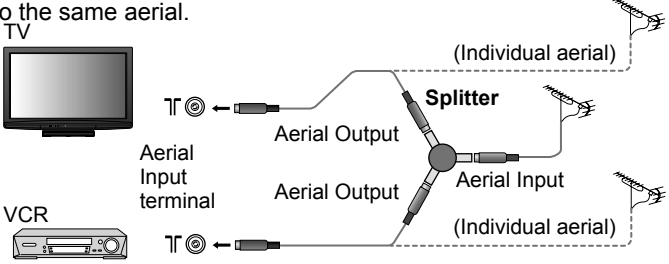
- Contrast is lowered in the following conditions without any user operation for a few minutes:
  - no signal in DVB or AV mode
  - selected invalid programme
  - selected radio service
  - displayed menu
  - Thumbnail or still picture in SD Card mode

## Pixel Statement

- An image on a LCD or Plasma TV screen is created by many small groups of dots known as pixels (which is similar to the image in a newspaper). It also naturally follows that higher panel resolutions contain more pixels. To create a colour image, each pixel consists of three tiny coloured dots (known as sub-pixels), one each of red, green and blue. Each one of these dots is precisely controlled by the electronics of the TV to produce the picture. Whilst Panasonic maintains the highest standards in manufacturing technology and processes in the construction of these panels, there are a number of allowable pixel/subpixel failures that still allow the panel to be defined as a good panel. It is not possible to guarantee absolutely no pixel loss.

Problem		Actions
Screen	Chaotic image, noisy	<ul style="list-style-type: none"> <li>● Change the setting of "P-NR" in the Picture Menu (to remove noise). (p. 24)</li> <li>● Check nearby electrical products (car, motorcycle, fluorescent lamp).</li> </ul>
	No image can be displayed	<ul style="list-style-type: none"> <li>● Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 24)</li> </ul>
	Blurry or distorted image (no sound or low volume)	<ul style="list-style-type: none"> <li>● Reset channel. (p. 32)</li> </ul>
	Unusual image is displayed	<ul style="list-style-type: none"> <li>● Turn off the TV with Mains power On / Off switch, then turn it on again.</li> </ul>
	"Shop" appears on screen at switch on	<ul style="list-style-type: none"> <li>● "Shop" was selected in "Auto Tuning" (p. 12). Reset all settings in "Shipping Condition" (p. 32), then select "Home" in "Auto Tuning" (p. 12).</li> </ul>
Sound	No sound is produced	<ul style="list-style-type: none"> <li>● Is "Sound Mute" active? (p. 10)</li> <li>● Is the volume set to the minimum?</li> </ul>
	Sound level is low or sound is distorted	<ul style="list-style-type: none"> <li>● Sound signal reception may be deteriorated.</li> <li>● Set "MPX" (p. 24) in the Sound Menu to "Mono".</li> </ul>

# FAQs

	Problem	Actions
HDMI	Sound is unusual	<ul style="list-style-type: none"> <li>Set the sound setting of the connected equipment to "2ch L.PCM".</li> <li>Check the "HDMI1 Input" setting in the Sound Menu. (p. 25)</li> <li>If digital sound connection has a problem, select analogue sound connection. (p. 34)</li> </ul>
	Pictures from external equipment are unusual when the equipment is connected via HDMI	<ul style="list-style-type: none"> <li>Is the HDMI cable connected properly? (p. 44)</li> <li>Turn Off the TV and equipment, then turn them On again.</li> <li>Check an input signal from the equipment. (p. 48)</li> <li>Use an equipment compliant with EIA/CEA-861/861B.</li> </ul>
Digital TV	Digital TV reception technology requires high quality, robust DTV signals which in some domestic aerial installations, may be relatively poor despite good analogue reception.	
	Aerial connection when using DTV and VCR / DVD Recorder	<ul style="list-style-type: none"> <li>To maintain optimum signal quality from TV aerial, use a TV aerial splitter (as illustrated) when connecting two or more equipments to the same aerial.</li> </ul> 
	After Digital TV Auto Tuning only some or no services are found	<ul style="list-style-type: none"> <li>Check to ensure your area is covered by DVB transmissions.</li> <li>Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1. Note: If you live within 5-10 Km of DVB transmission towers, a combined VHF / UHF aerial should be adequate. Outside this area, separate VHF and UHF aerials provide superior reception performance.</li> <li>If you live in a unit or apartment, check to ensure the Master Antenna TV (MATV) system is designed for analogue and DVB-T reception. Please consult your body corporate.</li> </ul>
	Picture regularly breaks up on some programmes, or "No Signal" message	<ul style="list-style-type: none"> <li>Check "Signal Condition". (p. 31) If "Signal Quality" or "Signal Strength" are displayed in red or constantly changing, check aerial. If problem persists consult your local TV aerial installer.</li> <li>Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1.</li> <li>Interference (known as impulse noise) from household appliances such as light switches, fridges etc may cause picture break up and / or audio distortion. Use high quality quad shielded coaxial cable fl y lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer.</li> <li>When "No Signal" message is displayed check TV aerial connection.</li> <li>The received signal may be too weak to allow the TV to reliably lock to the desired "No Signal" programme to generate a stable picture. Repeat the tuning procedure (p. 31). If problem persists consult your local TV aerial installer.</li> </ul>
	Picture very infrequently breaks up on some or all programmes	<ul style="list-style-type: none"> <li>Electrical atmospheric interference caused by local or distant lighting storms or heavy rain with wind in "leafy" locations may cause pictures to break up and audio to mute or distort momentarily.</li> <li>Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system.</li> </ul>
Other	TV takes so long to turn on	<ul style="list-style-type: none"> <li>Like your computer, the TV has to run a number of diagnostic and software checks before it can display any programmes.</li> </ul>
	The programme cannot be changed	<ul style="list-style-type: none"> <li>Is the TV in Teletext mode? (p. 18)</li> </ul>
	The programme cannot be selected	<ul style="list-style-type: none"> <li>Is the programme skipped? (p. 29)</li> </ul>
	TV goes into "Standby mode"	<ul style="list-style-type: none"> <li>Off Timer function is activated.</li> <li>The TV enters "Standby mode" about 30 mins. after analogue broadcasting ends.</li> </ul>
	The remote control does not work	<ul style="list-style-type: none"> <li>Are the batteries installed correctly? (p. 7)</li> <li>Has the TV been switched On?</li> </ul>

# Specifications

			TH-P42X14A	TH-P50X14A	
Power	Power rating		AC 220 - 240 V, 50 / 60 Hz 285 W	AC 220 - 240 V, 50 / 60 Hz 385 W	
	Normal (Home) mode		173 W	240 W	
	Standby condition		0.7 W	0.5 W	
Display panel	Aspect Ratio		16:9		
	Visible screen size		106 cm (diagonal) 921 mm (W) × 518 mm (H)	127 cm (diagonal) 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, WVGA, XGA SXGA, WXGA .....(compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
Receiving Systems / Band name			PAL B/G Reception of Off air broadcasts		
			DVB-T 7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception		
			PAL 60 Hz Playback of NTSC tape from some PAL Video recorders (VCR)		
			M.NTSC Playback from M. NTSC Video recorders (VCR)		
Aerial - Rear			Standard Belling & Lee connector		
Operating Conditions			Temperature : 0 °C - 35 °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 <sub>B</sub> /C <sub>B</sub> , P <sub>R</sub> /C <sub>R</sub>	1.0 V[p-p] (including synchronization) ±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 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)	
		DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic		
		Card slot	SD Card slot × 1		
Dimensions ( W × H × D )			1,029 mm × 709 mm × 327 mm (With Pedestal) 1,029 mm × 661 mm × 105 mm (TV only)	1,218 mm × 822 mm × 387 mm (With Pedestal) 1,218 mm × 769 mm × 105 mm (TV only)	
Mass			28.0 kg Net (With Pedestal) 26.0 kg Net (TV only)	36.0 kg Net (With Pedestal) 34.0 kg Net (TV only)	

## Note

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

## WARRANTY - Australia only

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.
  2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
  3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
  4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:

(a) Video or Audio Tapes	(d) Cabinet Parts	(g) Microwave Oven cook plates.
(b) Video or Audio Heads and Stylus resulting from wear and tear in normal use	(e) User replaceable Batteries	(h) Kneader mounting shaft unit (bread bakery)
(c) Shaver Heads or Cutters	(f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads	
  5. If warranty service is required you should:
    - Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
    - Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
    - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:

(a) Picture tube (CRT) based Television Receivers (screen sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)	(b) Convection/Combination Microwave Ovens
	(c) Whiteboard (except portable type)
  6. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.
- Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.
- Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the *Trade Practices Act 1974* and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.

November 2005

**THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES**

**If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website**

**[www.panasonic.com.au](http://www.panasonic.com.au) or by phone on 132 600**

***If phoning in, please ensure you have your operating instructions available.***

**Panasonic Australia Pty. Limited**

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23-11-2005

## 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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