WARRANTY - Australia only



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

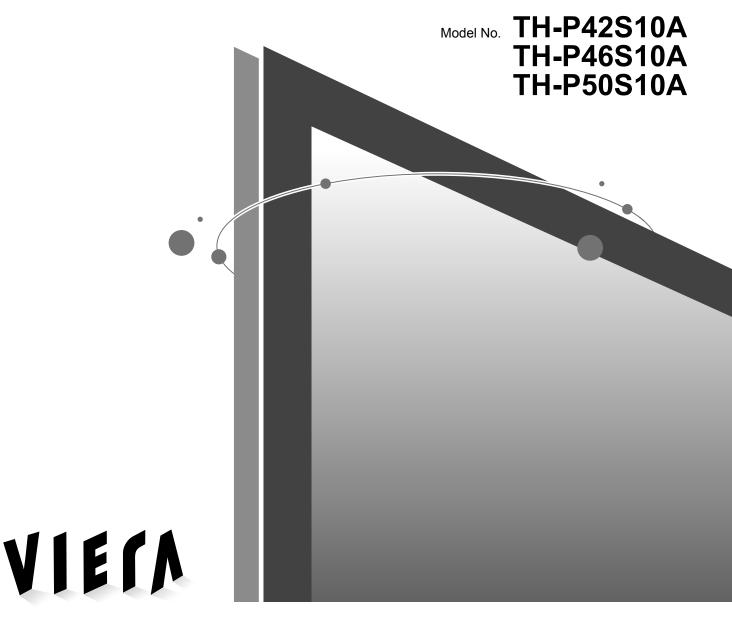
Panasonic Corporation

Web Site: http://panasonic.net/ © Panasonic Corporation 2009



Operating Instructions Plasma Television



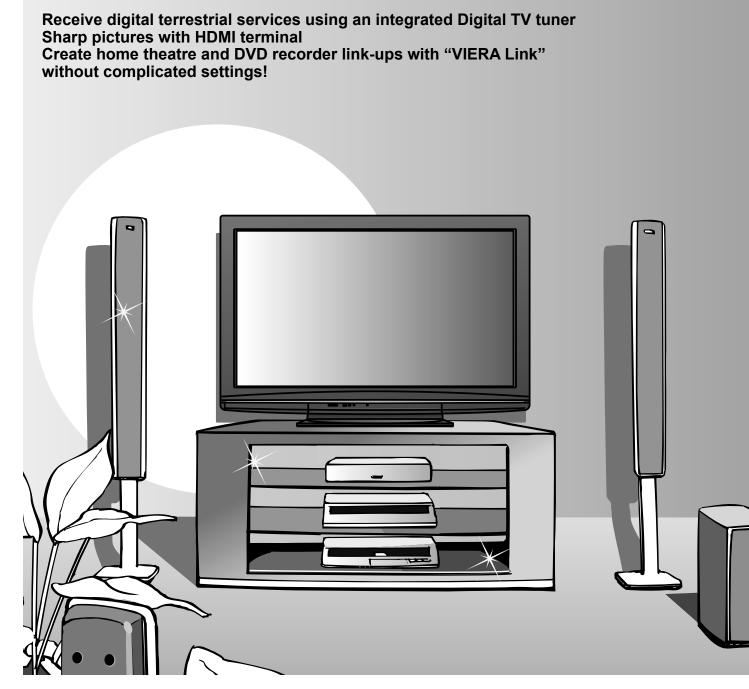




Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.

English

Turn your own living room into a movie theatre! Experience an amazing level of multi-





Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996) TH-P42S10A Declaration of Conformity No. 6419, 13 January 2009 TH-P46S10A Declaration of Conformity No. 6418, 13 January 2009 TH-P50S10A Declaration of Conformity No. 6417, 13 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





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Technical Features

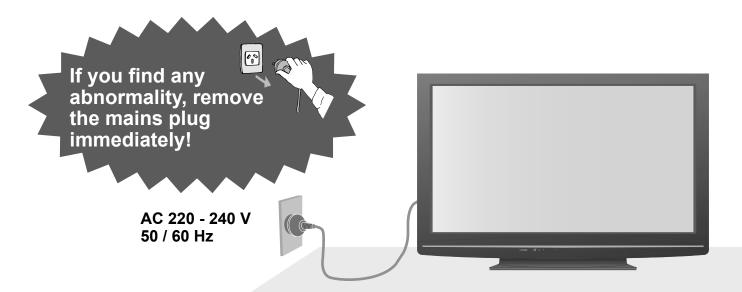
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Safety Precautions

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.



Power source

• This TV is designed to operate on 220 - 240 V, 50 / 60 Hz AC.

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

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

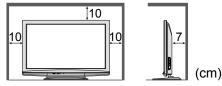
• Cleaning an energized TV may cause electrical shock.

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)

• The surface of the display panel has been specially treated and may be easily damaged.

- 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.
- "AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.
- Manufactured under license from Dolby Laboratories.

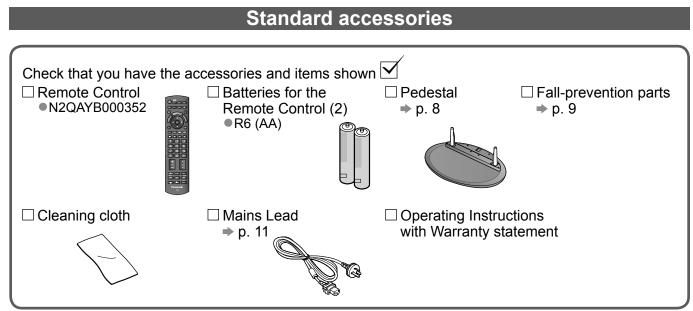
Dolby and the double-D symbol are trademarks of Dolby Laboratories.

Macintosh is a registered trademark of Apple Inc., USA.

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

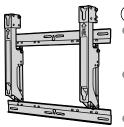


(Caution)

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

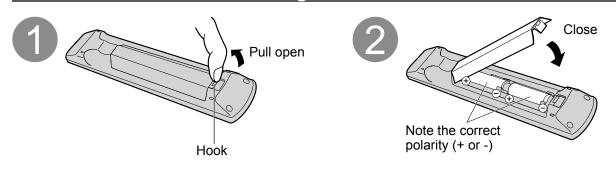


Caution

 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 pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.

Installing remote's batteries



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.

Start

Maintenance Licence Accessories / Options

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.

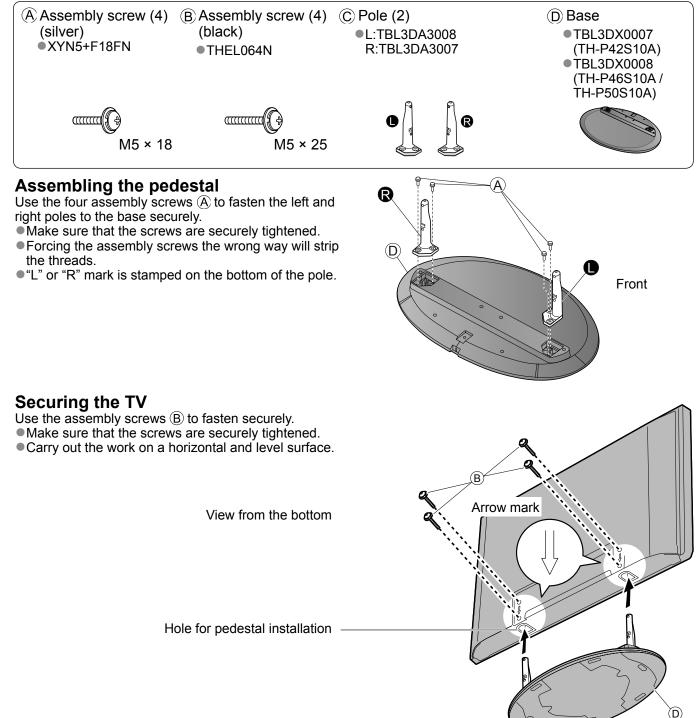
During set-up, make sure that all screws are securely tightened.

 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.



ck Start Ìuide

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.

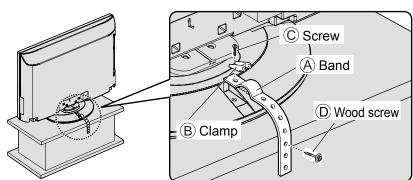
 This measure is designed to reduce the risk of injury from a falling TV. However, it cannot guarantee protection in all cases.

Fall-prevention parts



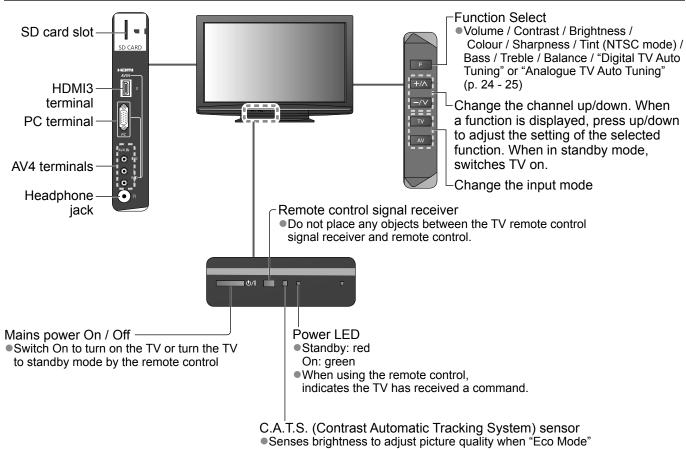
Securing to a base

Fix pedestal and base together with band.



This image is for illustrative purposes only.

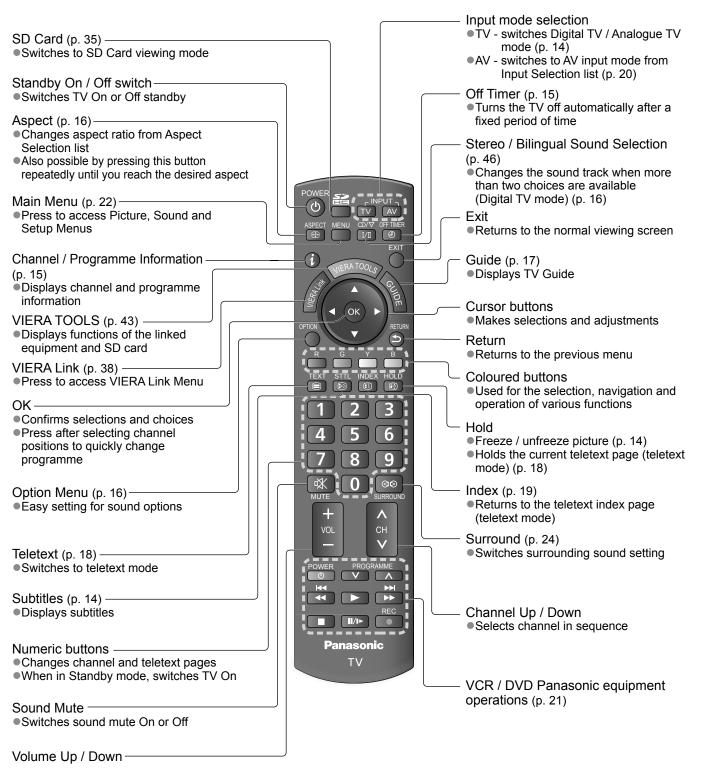
Identifying Controls



in the Picture Menu is set to "On" (p. 24)

Identifying Controls

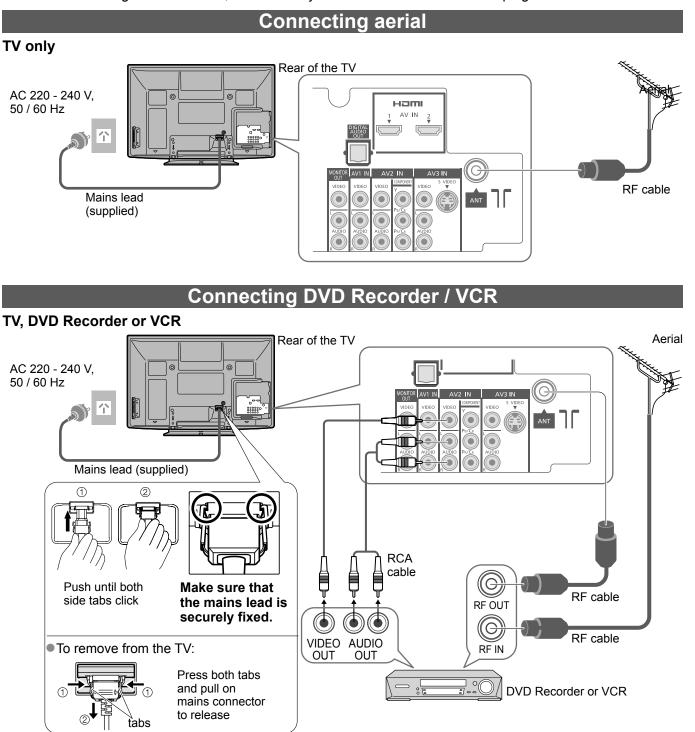
Remote Control



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.



Note

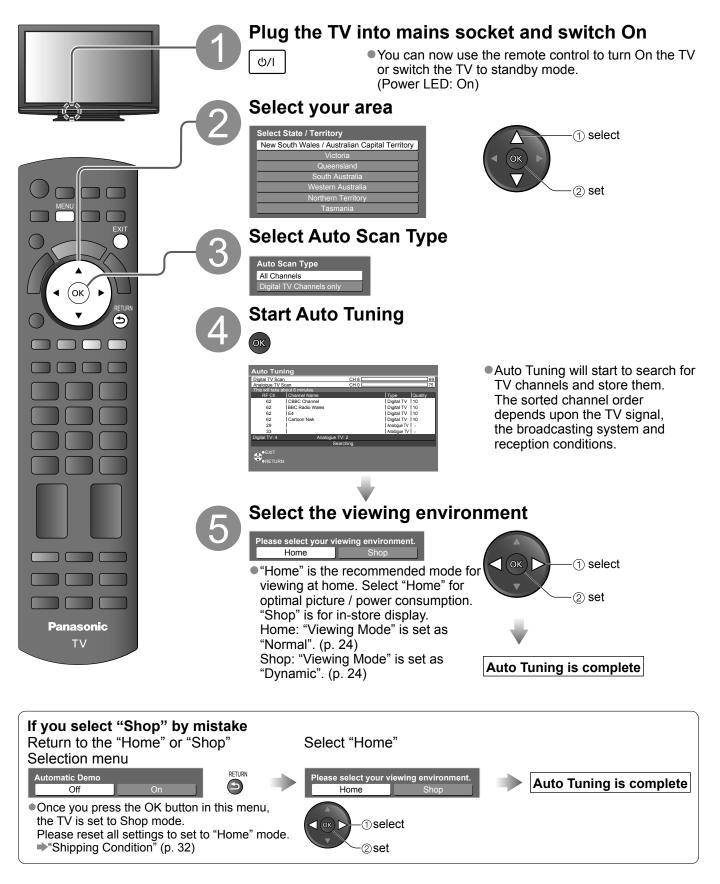
- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
- Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.
- ●VIERA Link connection ⇒ p. 38
- Read the manual of the equipment too.

Identifying Controls Basic Connection

Auto Tuning

Search and store TV channels automatically.

These steps are not necessary if the setup has been completed by your local dealer.



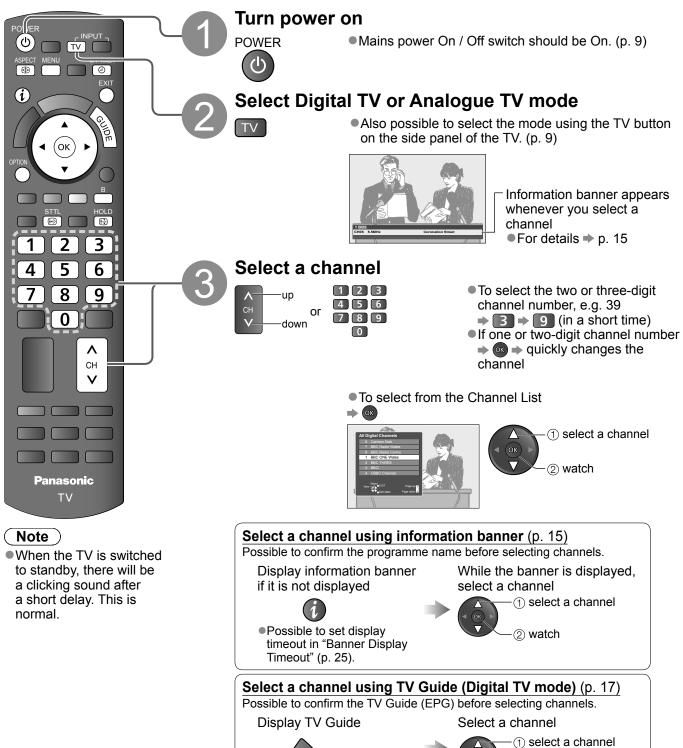
| | Using the On-Screen Displays |
|------------|--|
| Many featu | res available on this TV can be accessed via the On-Screen Display menu. |
| ON SCR | EEN HELP Instructions box (example: Sound Menu) |
| O | Music +4 +4 0 Volume 0 Volume 17 Off 0 off 0 ance to Wall Over 30cm d Defaults Reset EXIT -Change RETURN |
| | créen operation guide ise remote control |
| MENU | Open the Main Menu |
| | Move the cursor / select the menu |
| | Move the cursor / adjust levels / select from a range of options |
| ОК | Access the menu / store settings after adjustments have been made or options have been set |
| RETURN | Return to the previous menu |
| EXIT | Exit the menu system and return to the normal viewing screen |
| | |

Note)

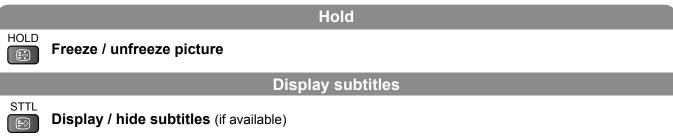
- To edit channels → "Editing Channels" (p. 28)
 If tuning has failed "Tuning Channels" (p. 30)
 To reset all settings → "Shipping Condition" (p. 32)
 If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.

Auto Tuning Quick Start Guide

Watching TV



Other useful functions



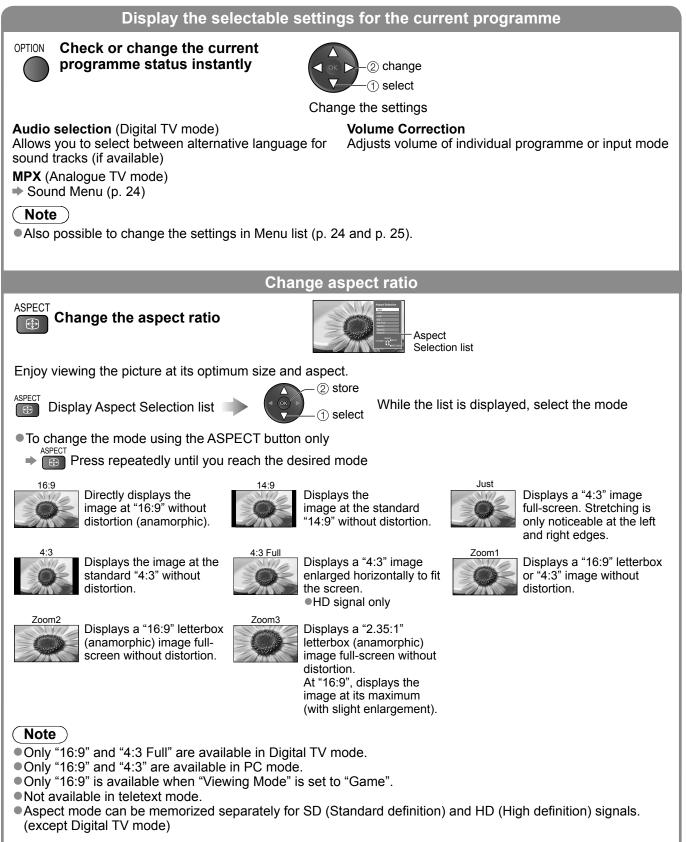
(2) watch

Other useful functions

| Display information banner | | | | | | | | | |
|--|--|--|--|--|---|--|---|---|-------------------|
| | play informatio | | | | | | | | |
| | so appears when | | annels | | | | | | |
| F | Programme name | | | | | nt time | | | |
| | 1 TEN D | | | 1 | 0:30am | All Digital Chann Select favourit | | | |
| | 9:00 am - | 11:00 am | | low ► | | Software upd | | | |
| Г г | ∣ <u> </u> |) Rating: PG | Bad Signa | al | | | 45 | | |
| | Analogue TV: Chanr | | Sirtine | | | (exan | npie) | | |
| Features av | ailable / Message | e meanings | | | | | | | |
| ₫ (私 | Sound mute On | Bac | d signal | Poor | TV sig | nal quality | | Teletext service availa | ble |
| ~` | | | - | (Digit | al TV r | node) | | | |
| | Audio mode (p. 46 | 6) End | crypted | | | orogramme | I/I | Multiple image or audio available (Digital TV mo | da) |
| Щ, ∨ | (Analogue TV mo | ue) | | Digit | al TV r | noue) | | avaliable (Digital 1 v 110 | ue) |
| Rating: | Rating information | n 😥 | | | | /ice available | 1 - 90 | Off Timer remaining ti | |
| | (Digital TV mode) | (p. 46) | | (Digit | al TV r | node) | | For settings 	 see bel | low |
| L | | | | | | | | | |
| To confirm | n another tuned cl | hannel name | e 🔸 | ▲ ОК ► | | o watch the p anner | rogramr | me listed in the | |
| | | | | V | 0 | anner | | • | |
| To select | a favourite list (Di | igital TV mod | le) ⇒(| В | ۰T | o hide | | ⇒ EXIT | |
| | | - | , , , | | . •T | | | | |
| (Digital T | on on the next pro | gramme | ⇒ | | | o set display ▶ "Banner Dis | | eout" (n. 25) | |
| (Digital 1 | v mode) | | | V | | xtra informati | | 100ut (p. 20) | |
| | | | | | | press again to | | e banner) 🔹 🚱 | |
| | | | | | | Digital TV mo | | | |
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| | | | (| Off T | imer | | | | |
| Turn the I | TV off automativ | cally after | | | | mo (Off / 15 | 130// | 15 / 60 / 75 / 90 minut | (ac) |
| | | | a fixed | | | me (Off / 15 | / 30 / 4 | 45 / 60 / 75 / 90 minut | es) |
| OFF TIMER | Press repeatedly | | a fixed | | | me (Off / 15 | 30/2 | | es) |
| | | MEN | a fixed | | | me (Off / 15 | / 30 / 4 | 45 / 60 / 75 / 90 minut | es) |
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| OFF TIMER | Press repeatedly | MEN | | Derio Setup Menu Timer Ital TV Tuning play Settings RA Link Settin tem Menu ter Settings | <mark>d of ti</mark> ∙Off Menu gs | me (Off / 15 | | | es) |
| OFF TIMER | Press repeatedly to set the time | y or MEN | a fixed | perio Sotup Menu Timer ital TV Tuning play Settings RA Link Settin RA Link Settin tem Menu ter Settings | <mark>d of ti</mark> ∙Off Menu gs | | | | es) |
| OFF TIMER | Press repeatedly to set the time Set to 0, set to | ^y or <u>MEN</u> "Off" or turn | a fixed | perio Setup Menu Timer Ital TV Tuning play Settings RA Link Settin tem Menu ter Settings lect "Co off. | <mark>d of ti</mark> ∙Off Menu gs | | | | es) |
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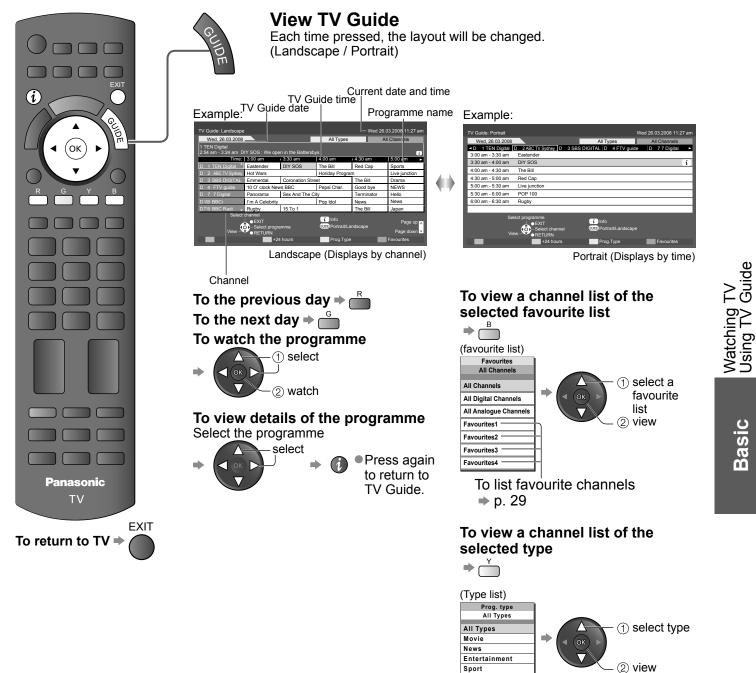
Watching TV

Other useful functions



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).



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.

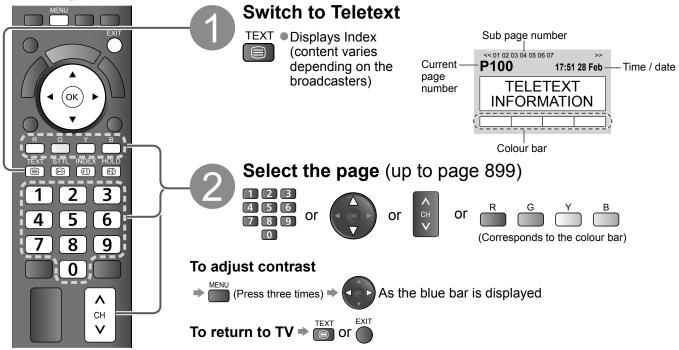
Children's Music

Basic

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)



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 $\Rightarrow \square^{R}$

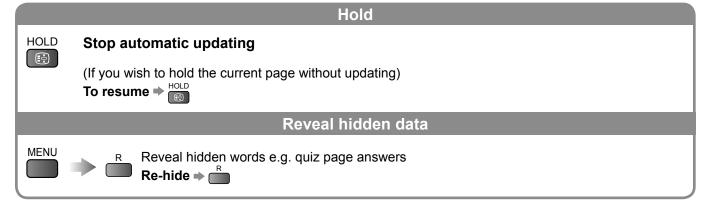
To select among subject blocks ⇒ —

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

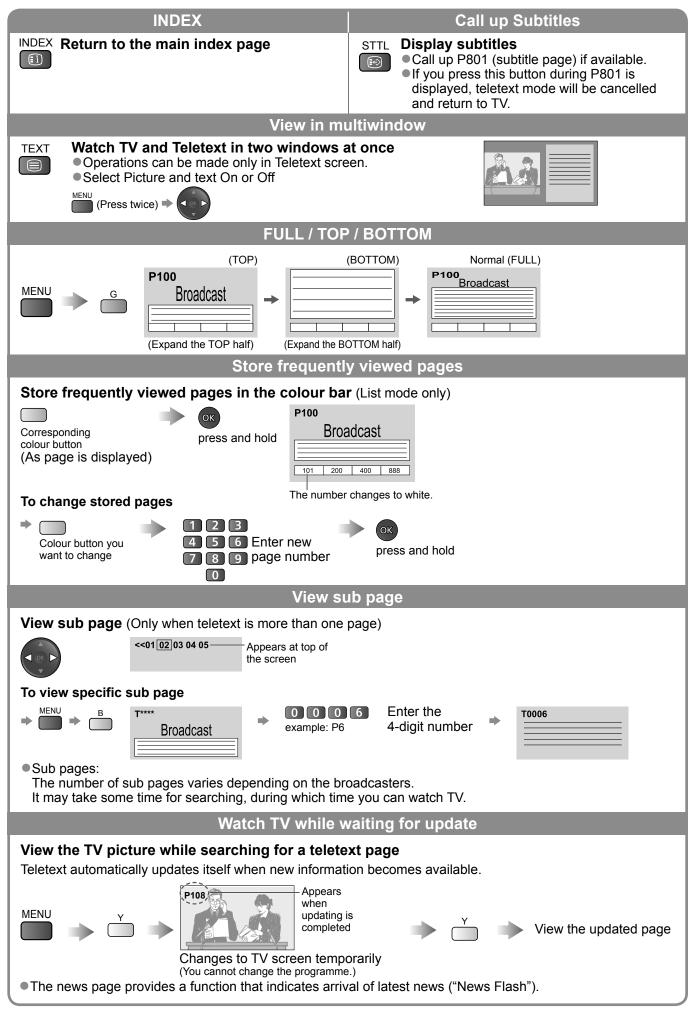
What is List mode?

In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 19)

Using teletext conveniently

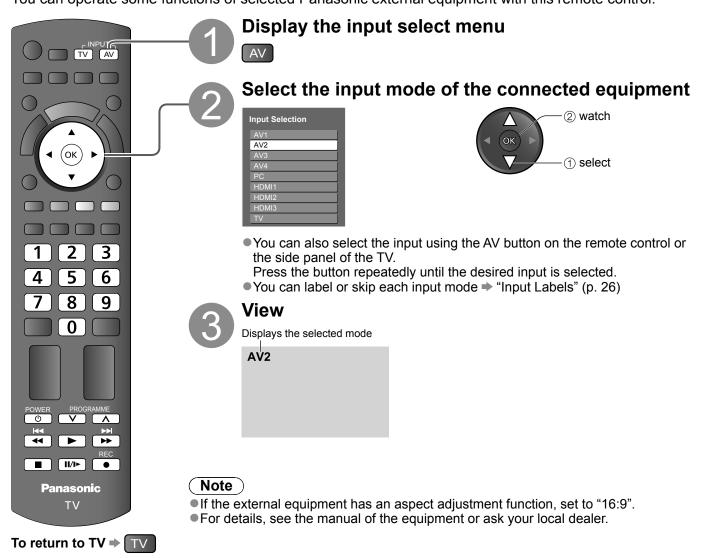


Using teletext conveniently



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.



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

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

How to change the code for each equipment

Each type of Panasonic equipment has its own remote control code.

Please change the code for each equipment you want to operate.

Press and hold ouring the following operations

Enter the appropriate code See table below

1 2 3 4 5 6 7 8 9 → Press

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

Note

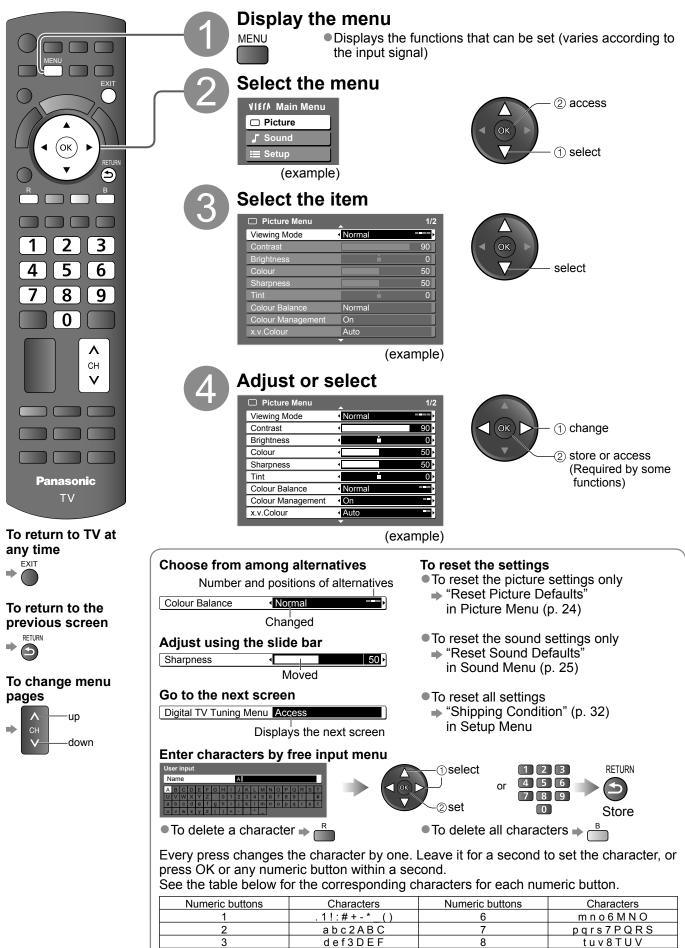
• Confirm if the remote control works correctly after changing the code.

• The codes will be reset to default values if batteries are replaced.

• Some operations may not be possible on some equipment models.

How to Use Menu Functions

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



ghi4GHI

jkI5JKL

9

0

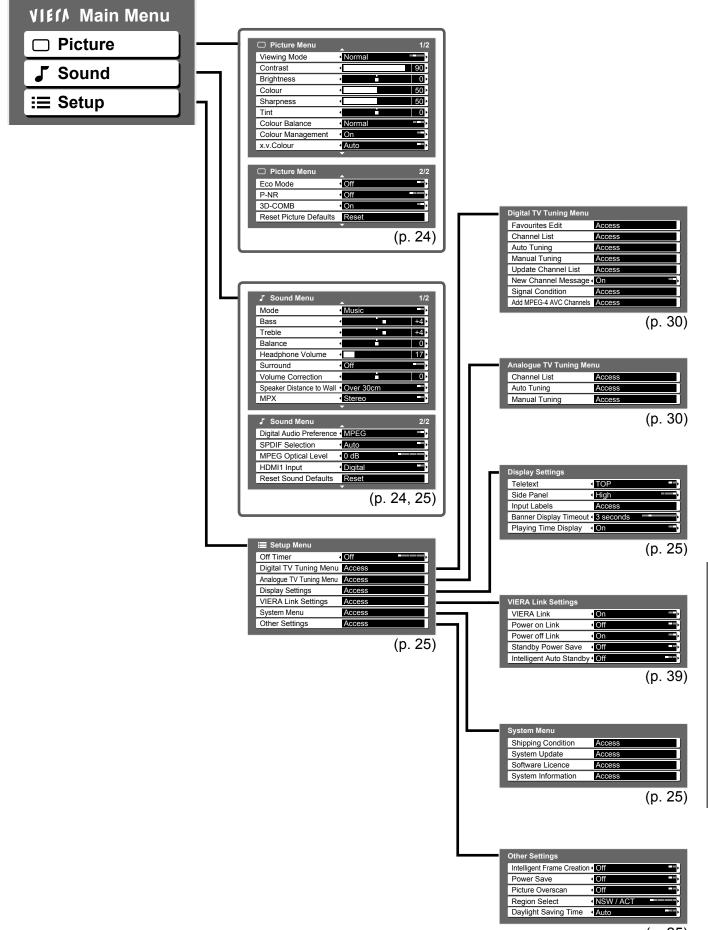
4

5

wxyz9WXYZ

Space 0

Overview



Depending on the received signals, available items are varied.

Advanced

How to Use Menu Functions

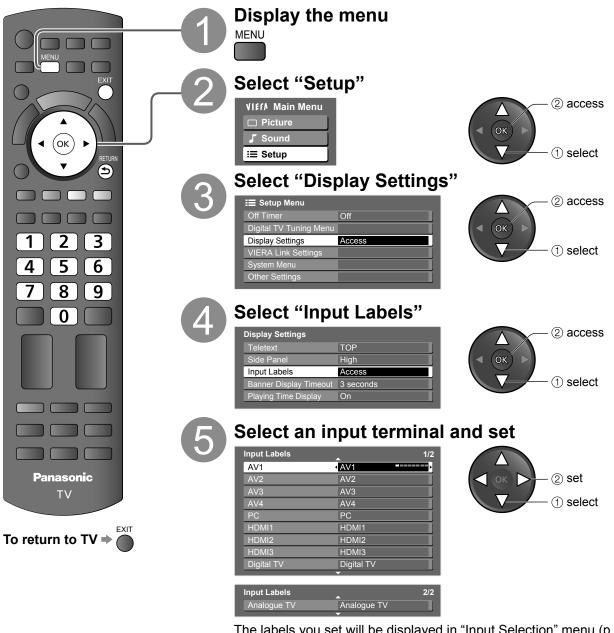
Menu list

| Menu | ltem | Adjustments / Configurations (alternatives) | | | | |
|---------|--|---|--|--|--|--|
| | Viewing Mode | Basic picture mode (Dynamic / Normal / Cinema / Game) Dynamic : Provides enhanced picture contrast and sharpness when viewing in a bright room Normal : Recommended for viewing under normal ambient room lighting conditions Cinema : For watching movies in a darkened room producing a cinema-like picture Game : Game playing time is displayed only when connecting a game equipment. • Set for each input signal | | | | |
| | Contrast, Brightness, Colour, Sharpness | Increases or decreases the levels of these options according to your personal preference | | | | |
| | Tint | With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste • For NTSC or Component / HDMI input signal reception only | | | | |
| | Colour Balance | Allows you to set the overall colour tone of the picture (Cool / Normal / Warm) | | | | |
| ure | Colour Management | Automatically adjusts colours to vivid ones (Off / On) •Not valid on PC signal | | | | |
| Picture | x.v.Colour | Increases the colour gradations (Off / Auto) This is effective when watching HD moving pictures with extended gamut (xvYCC) from external equipment. •HDMI input mode or Movie View Mode (p. 37) only | | | | |
| | Eco Mode | Adjusts picture settings automatically dependent on ambient lighting conditions (Off / On) | | | | |
| | P-NR | Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max) • Not valid on PC signal | | | | |
| | 3D-COMB | Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to "On" to display sharper and more accurate colours (Off / On) • For PAL or NTSC signal reception only • Not valid on S-Video, Component, PC, HDMI and SD Card | | | | |
| | Reset Picture Defaults | Press the OK button to reset the present Picture Menu to the default settings | | | | |
| | Mode | Basic sound mode (Music / Speech) Set for each input signal | | | | |
| | Bass | Increases or decreases level to enhance or minimise lower, deeper sound output | | | | |
| | Treble | Increases or decreases level to enhance or minimise sharper, higher sound output | | | | |
| | Balance | Adjusts volume level of right and left speakers | | | | |
| | Headphone Volume | Adjusts the volume of the headphones | | | | |
| | Surround | Surround sound settings (Off / V-Audio / V-Audio Surround) V-Audio: Provides a dynamic enhancer to simulate improved spatial effects V-Audio Surround: Provides a dynamic enhancer of width and depth to simulate improved spatial effect • Switching is also possible by the Surround button on the remote control (p. 10). | | | | |
| | Volume Correction | Adjusts volume of individual channel or input mode | | | | |
| pur | Speaker Distance to Wall | Adjusts the low frequency sound (Over 30cm / Up to 30cm) • Over 30cm: Recommended when the back space between the TV and wall is over 30 cm. • Up to 30cm: Recommended when the back space between the TV and wall is within 30 cm. | | | | |
| Sound | МРХ | Selects stereo / monaural (Mono / Stereo) (p. 46) •Normally: Stereo •Stereo signal cannot be received: Mono •M1 / M2: Available while mono signal is transmitted •Analogue TV mode only | | | | |
| | Digital Audio Preference | Selects the initial setting for Audio tracks (Dolby D / MPEG) 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 | | | | |
| | SPDIF Selection | Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (Auto / PCM) 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 | | | | |

| Menu | | Item | Adjustments / Configurations (alternatives) | | | | |
|-------|---------------------------------------|-------------------------------|---|--|--|--|--|
| σ | MPEG Optical Level HDMI1 / 3 Input | | 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 | | | | |
| Sound | | | Select to fit the input signal (Digital / Analogue) (p. 48) Digital: HDMI cable connection Analogue: HDMI-DVI adapter cable connection HDMI input mode only HDMI2 terminal is for digital signal only No setting for HDMI2 available | | | | |
| | | set Sound Defaults | Press the OK button to reset the present Sound Menu to the default settings | | | | |
| | Of | f Timer | Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) (p. 15) | | | | |
| | | Favourites Edit | Creates list of favourite channels (Digital TV mode) (p. 29) | | | | |
| | | Channel List | Skips the unwanted channels (p. 29) | | | | |
| | - | Auto Tuning | Sets all Digital TV or Analogue TV channels automatically (p. 30) | | | | |
| | Menu | Manual Tuning | Sets the TV channels manually (p. 31) | | | | |
| | Σ | Update Channel List | Update the channel list (Digital TV mode) (p. 31) | | | | |
| | inç | New Channel Message | Displays a message when new Digital TV channels are found. (Off / On) (p. 31) | | | | |
| | Tuning | Signal Condition | Checks the Digital TV signal condition (p. 31) | | | | |
| | | Add MPEG-4 AVC Channels | Activates the reception of MPEG-2 and MPEG-4 AVC channels •Use this function if MPEG-4 AVC services start in your area. •All previous tuning settings are erased. •Once activated, this option is removed from the Digital TV Tuning Menu. | | | | |
| | | Teletext | Teletext display mode (TOP (FASTEXT) / List) (p. 18) | | | | |
| | Settings | Side Panel | Increases the brightness of the side panel (Off / Low / Mid / High) • The recommended setting is "High" to prevent panel "image retention". | | | | |
| | Set | Input Labels | Labels or skips each input mode (p. 26) | | | | |
| | Display | Banner Display Timeout | Sets how long the information banner stays on screen from 0 (No display) to 10 sec. in 1-sec. increments | | | | |
| | Dis | Playing Time Display | Displays the length of time in every thirty minutes for playing game (Off / On) ●When "Viewing Mode" is set to "Game" | | | | |
| dn | ings | | Sets to use VIERA Link functions (Off / On) •VIERA Link functions become available when "VIERA Link" is set to "On". | | | | |
| Setu | Sett | Power on Link | Sets to use Power on Link functions (Off / On) (p. 39) | | | | |
| S | nk (| Power off Link | Sets to use Power off Link functions (Off / On) (p. 39) | | | | |
| | VIERA Link Settin | Standby Power Save | Controls the power consumption in Standby mode of the connected equipment to reduce the consumption (Off / On) (p. 39) | | | | |
| | | Intelligent Auto Standby | Makes unwatched or unused connected equipment go into Standby mode to reduce the power consumption (Off / On (With reminder) / On (No reminder)) (p. 39) | | | | |
| | System menu | Shipping Condition | Resets all settings, for example, when moving house (p. 32) | | | | |
| | , m | System Update | Downloads new software to TV (p. 27) | | | | |
| | sterr | Software Licence | Displays the software licence information | | | | |
| | Sys | System Information | Displays the system information of this TV | | | | |
| | | Intelligent Frame Creation | Automatically compensates the picture frame rate to make the image smooth (Off / On) • Set to "Off" if noise is generated on the screen. | | | | |
| | | Power Save | Reduces brightness of picture to minimise power consumption (Off / On) | | | | |
| | Other Settings | Picture Overscan | Selects the screen area for displaying the image (Off / On) On: Enlarges the image to hide the edge of the image. Off: Displays the image in the original size. Set to "On" if noise is generated on the edges of the image. This function is available when aspect is set to "16:9". This function can be memorized separately for SD (Standard Definition) and HD (High Definition) signals. | | | | |
| | ō | Region Select | Selects the region where you live to adjust the standard time (NSW / ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania) (p. 15) | | | | |
| | | Daylight Saving Time | Select time offset from the standard time for Summer Time (Auto / Off / +1/2 hour / +1 hour) (p. 15) • Set to "Auto" normally illo PC_DV/Lto HDML adapter cable or SD Card is used (p. 23, 37) | | | | |

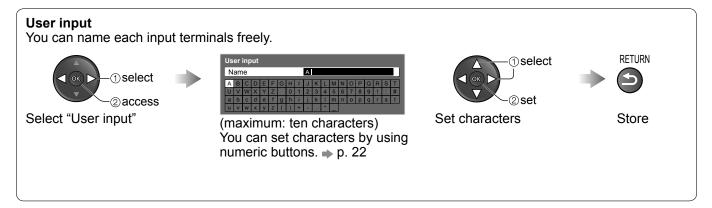
Input Labels

For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment. ● To select the input mode ⇒ p. 20



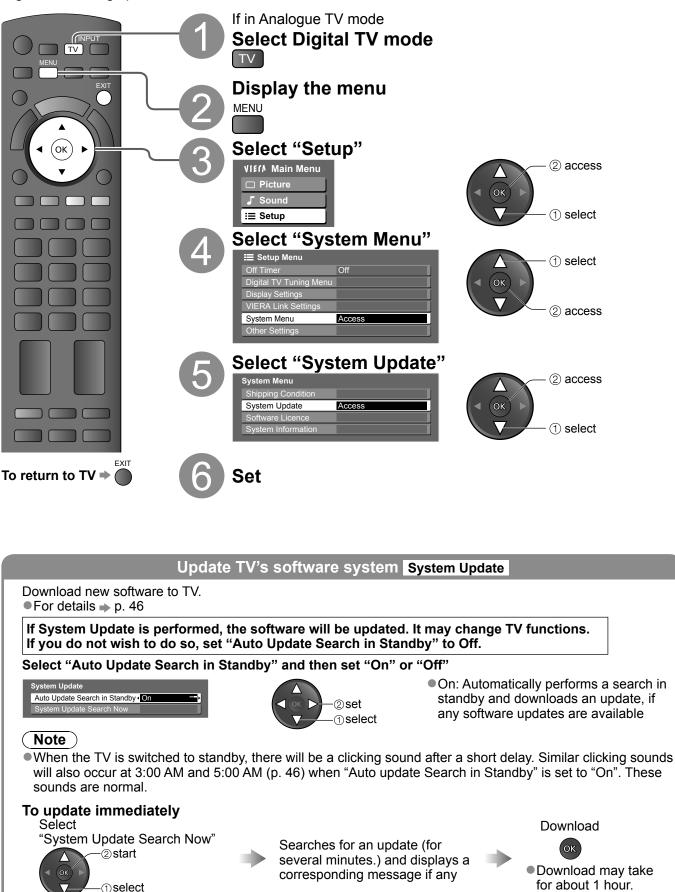
The labels you set will be displayed in "Input Selection" menu (p. 20) or banner.

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



Digital TV Settings

Digital TV Settings provide access to various advanced features.

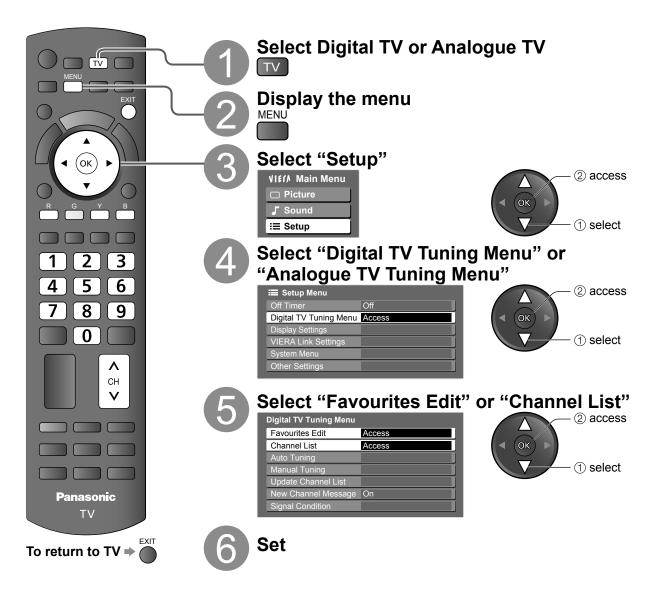


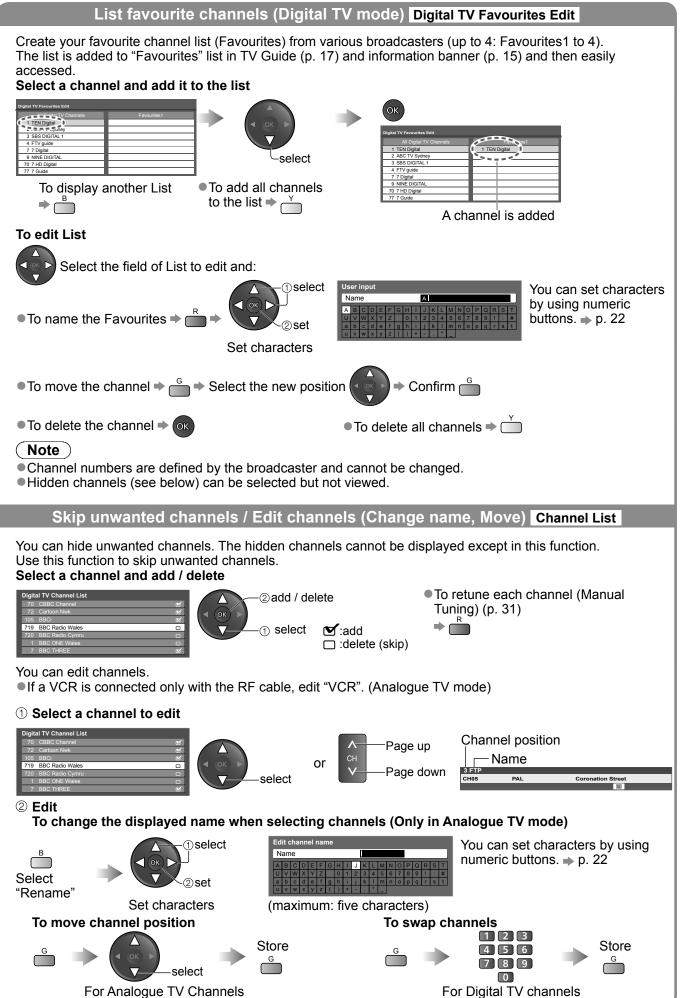
Note

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

Editing Channels

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

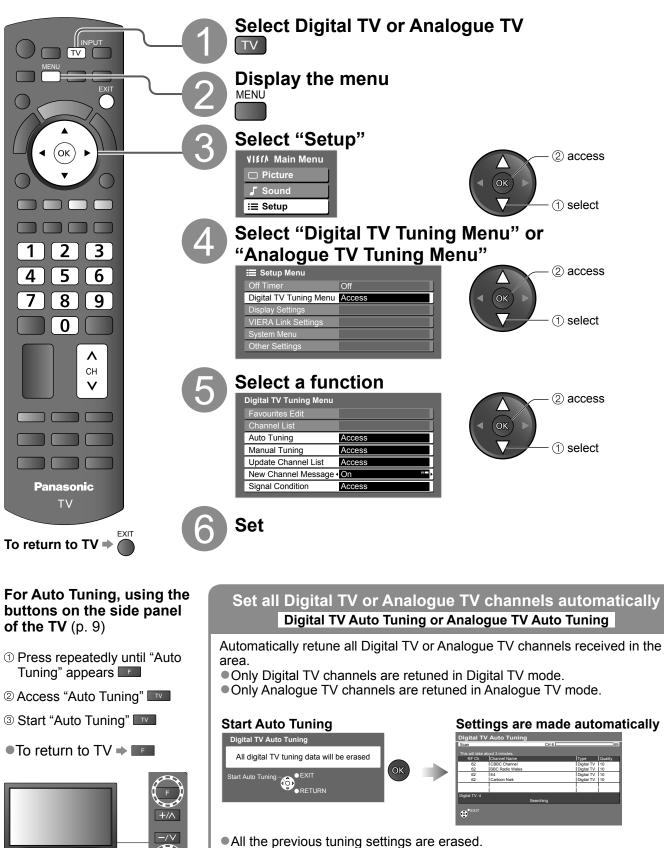




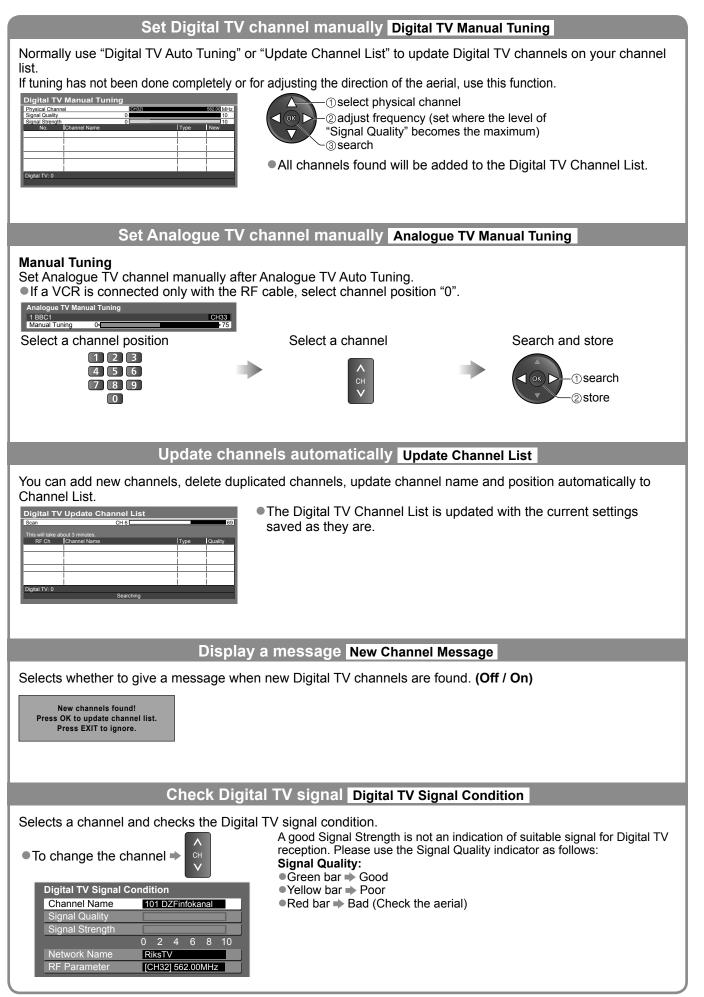
<u>Advanced</u>

Tuning Channels

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

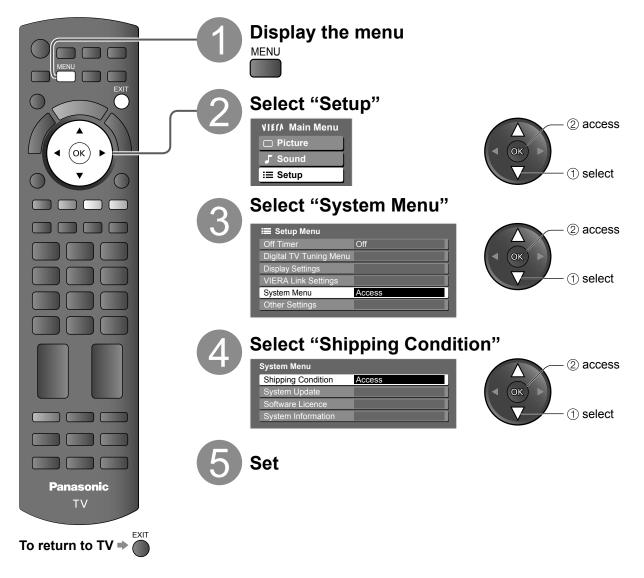


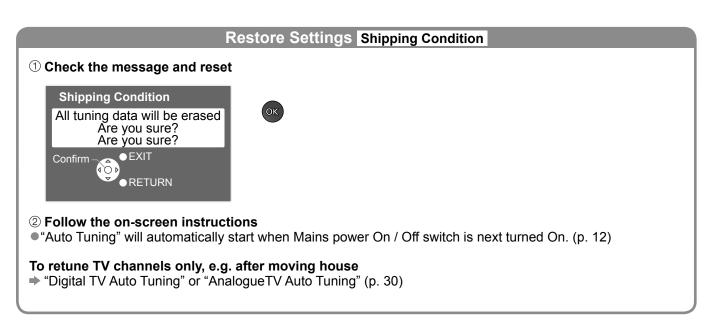
- When the operation is completed, the channel at channel position "1" will be displayed.
- Search begins in the order from the lower channels to the higher channels. Channels received during this process are added to the list. (p. 31)
- If tuning has not been done completely ⇒ "Digital TV Manual Tuning",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



Restore Settings

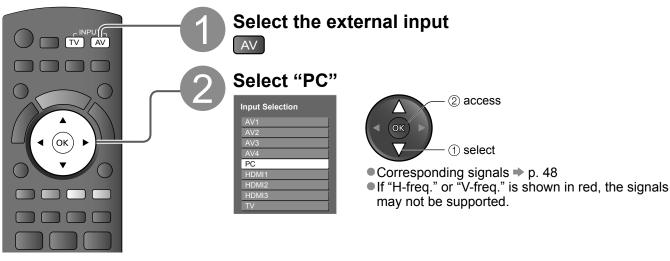
Resets the TV to its original condition, i.e. no channels tuned in. All settings (channels, picture, sound quality, etc.) are reset.





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



To return to TV ⇒ **I**

PC menu setting (changed as desired)

| Menu | lt | em | Adjustments / Configurations (options) | |
|---------|--|----------------------|---|--|
| | | W/B High R | White balance of bright red area | |
| | | W/B High B | White balance of bright blue area ① ① ① | |
| lre | Advanced | W/B Low R | White balance of dark red area repeatedly adjusted | |
| Picture | PC | W/B Low B | White balance of dark blue area | |
| Ā | Settings | Gamma | (S Curve / 2.0 / 2.2 / 2.5) | |
| | | Reset PC Settings | Press the OK button to reset to the default Picture settings | |
| | | Input Resolution | Switches to a wide view •VGA (640 x 480 / 852 x 480 pixels), XGA (1024 x 768 / 1280 x 768 / 1366 x 768 pixels) •Options change depending on signals | |
| | Clock Set to the minimum level if noise occurs | | | |
| Q | Adjusts horizontal position H-pos | | Adjusts horizontal position | |
| Setup | PC Setup | 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 Displaying PC Screen on TV

Advanced

HDMI Functions

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and highquality 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 / 3 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 / 3 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AV2 IN AUDIO terminals / HDMI3: use AV4 IN AUDIO terminals).

DVI Position Settings

| Menu | Item | | Adjustments | |
|------|--------------------------|-----------------------------------|--|--|
| | 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) HDMI Functions

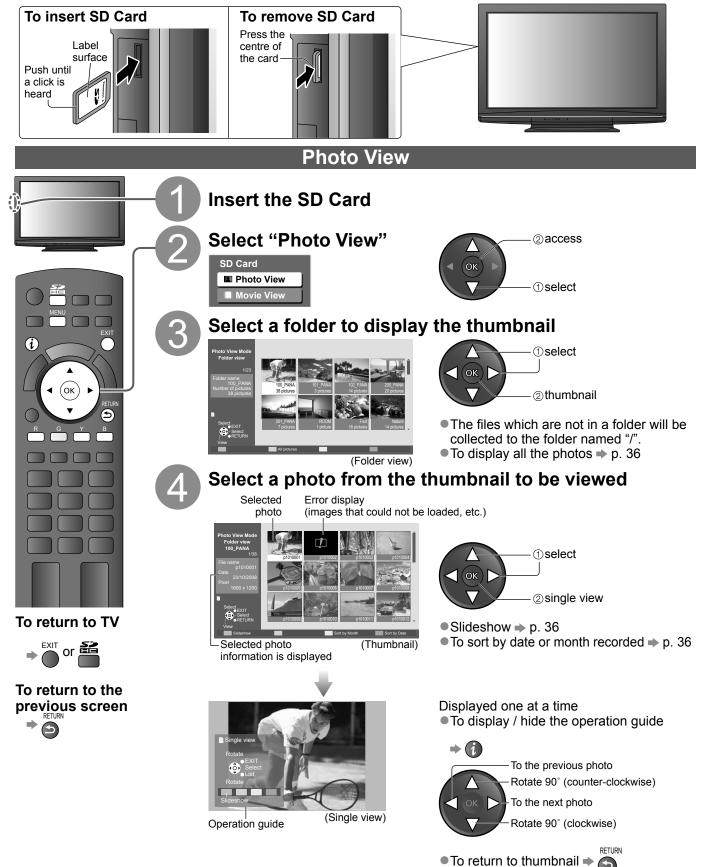
Advanced

Viewing from SD Card (VIERA IMAGE VIEWER)

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

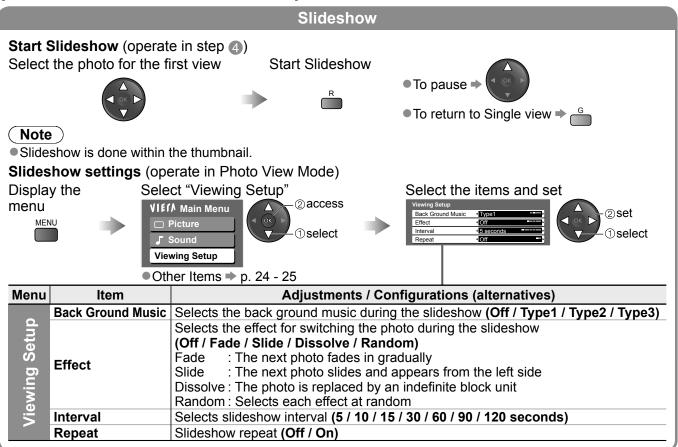
Movie View: Moving pictures recorded by digital video cameras will be played back.

- During the operation, no signals are output from any of the AV terminals. But the sound in Movie View can be output from AUDIO OUT and DIGITAL AUDIO OUT 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



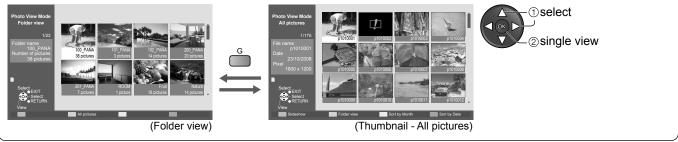
 (\mathbf{S})

Viewing from SD Card (VIERA IMAGE VIEWER)



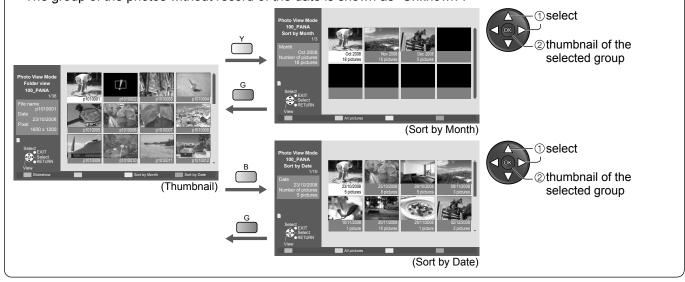
To display all the photos

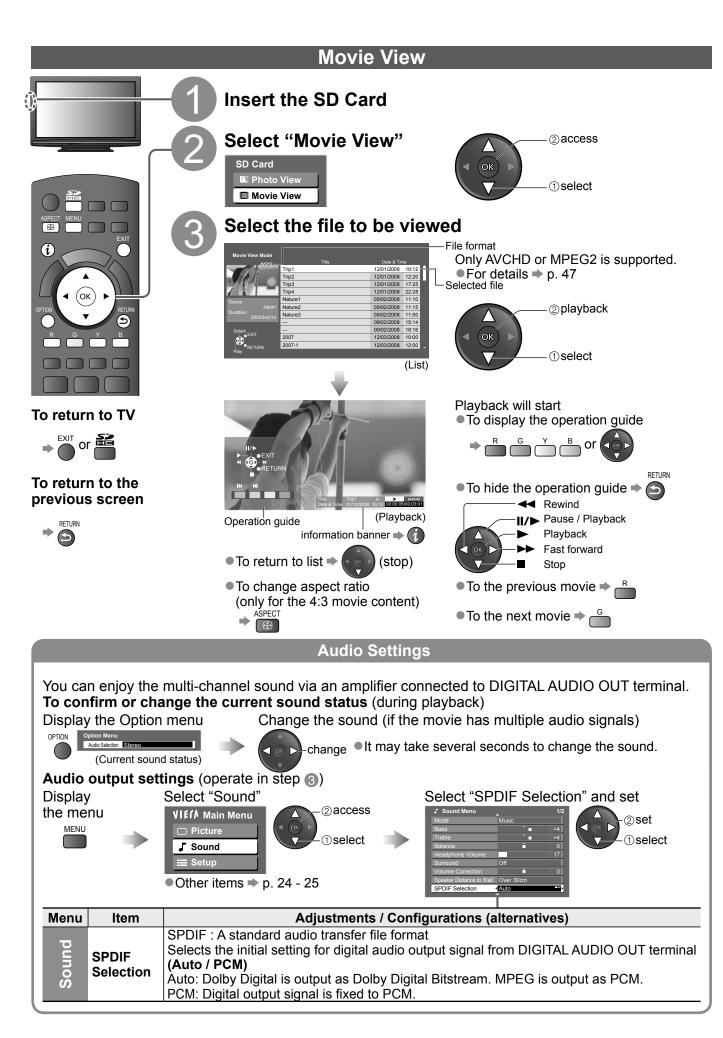
Display the thumbnail of all the photos in SD Card.



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".





Viewing from SD Card (VIERA IMAGE VIEWER)

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 Features | DIGA Recorder*1 | DVD Player / Blu-ray Disc Player*1 | HD Video Camera / LUMIX Camera ^{*1} | Player theatre*2 | Blu-ray Disc theatre*2 | Amplifier*2 |
|---|--------------------------|--|--|------------------------|---------------------------|-------------|
| Channel download | ○*4 | _ | - | _ | - | _ |
| Easy playback | 0 | 0 | 0 | ○*7 | O*7 | _ |
| Power on link | 0 | 0 | 0 | 0 | 0 | _ |
| Power off link | 0 | 0 | 0 | 0 | 0 | 0 |
| 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 | ⊖ <mark>*</mark> 4 *6 | _ | _ | _ | _ | _ |
| Direct TV Recording | ○*4 | _ | - | _ | - | _ |
| Control the menu of the connected equipment by VIERA remote control | ⊖*3 | ⊖*3 | _*3 | ○*3 | ○*3 | - |
| Speaker control | _ | _ | - | 0 | 0 | 0 |

*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

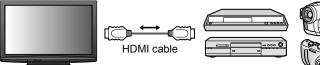
*6: available with DIGA Recorder which has HDD

*7: while playingback a disc

*8: except for watching a disc

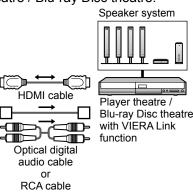
Connection

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

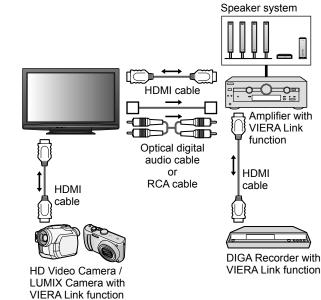


DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function

To use Player theatre / Blu-ray Disc theatre:



To use Amplifier:



Advanced

(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 function, connect to HDMI1, HDMI2 or HDMI3 terminal via an HDMI cable.
- For Player theatre / Blu-ray Disc theatre / Amplifier, connect to HDMI1, HDMI2 or HDMI3 terminal via an HDMI cable and/or 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, HDMI2 or HDMI3 (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

Set Power on Link "On" in Setup Menu to use this function → "Power on Link" (p. 25) When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when the TV is in Standby mode.)

Power off link

Set Power off Link "On" in Setup Menu to use this function → "Power off Link" (p. 25)
When the TV is set to Standby mode, the connected equipment is also automatically set to Standby.
This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

Reduce unnecessary power consumption in standby Standby Power Save

Set Standby Power Save "On" in the Setup Menu to use this function → "Standby Power Save" (p. 25) The power consumption in Standby mode of the connected equipment is controlled higher or lower in synchronization with the TV On / Off state to reduce the consumption.

When the TV is set to Standby mode, the connected equipment is automatically set to Standby and the power consumption in Standby mode of the connected equipment is automatically minimized. When the TV is turned on, the connected equipment is still in Standby mode, but the power consumption is increased to make startup time early.

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

Auto standby for unnecessary equipment Intelligent Auto Standby

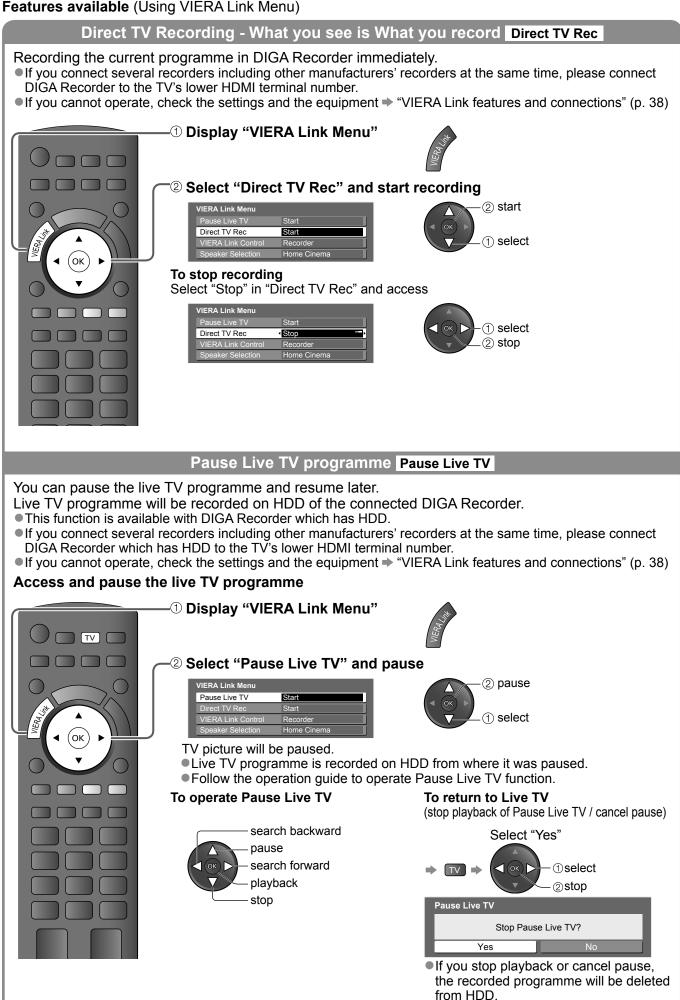
Set Intelligent Auto Standby "On (With reminder)" or "On (No reminder)" in the Setup Menu to use this function → "Intelligent Auto Standby" (p. 25)

When the TV is on, the connected equipments not in use go into Standby mode automatically to reduce the power consumption.

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

VIERA Link "HDAVI Control™"

Features available (Using VIERA Link Menu)



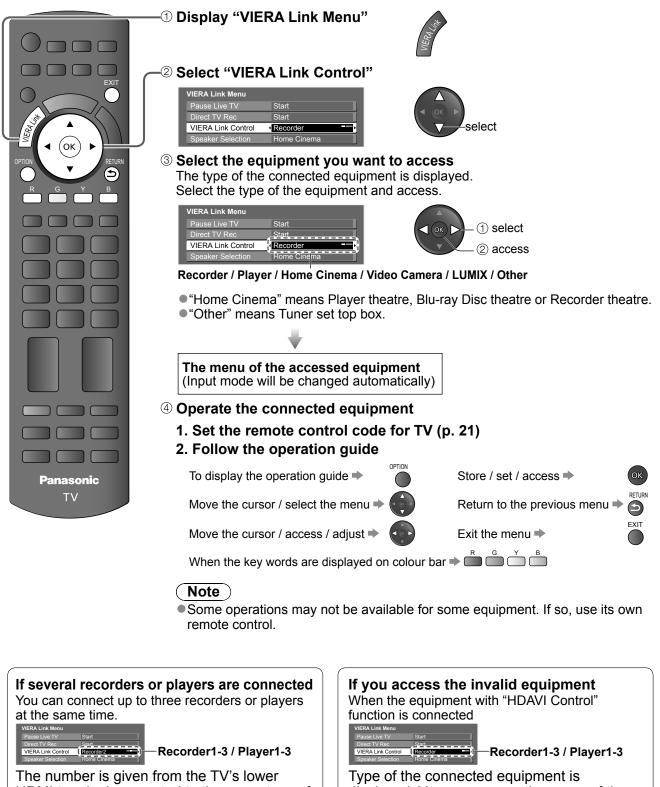
Features available (Using VIERA Link Menu)

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



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

41

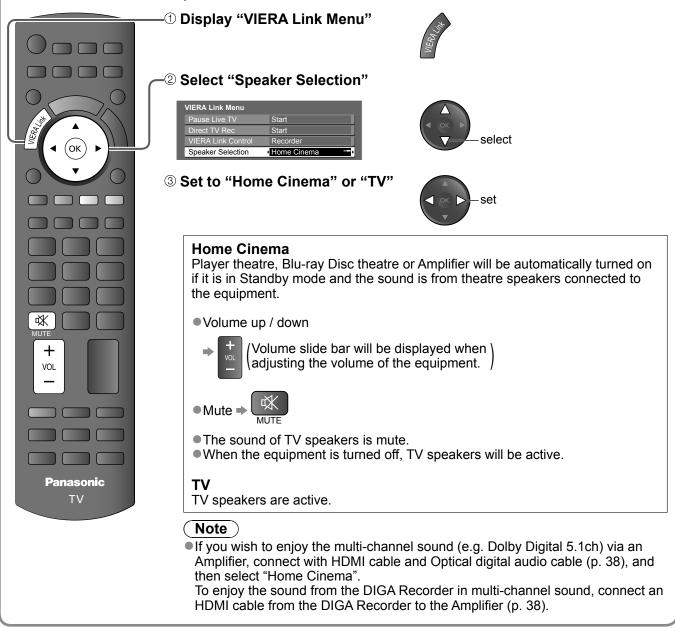
VIERA Link "HDAVI Control™"

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

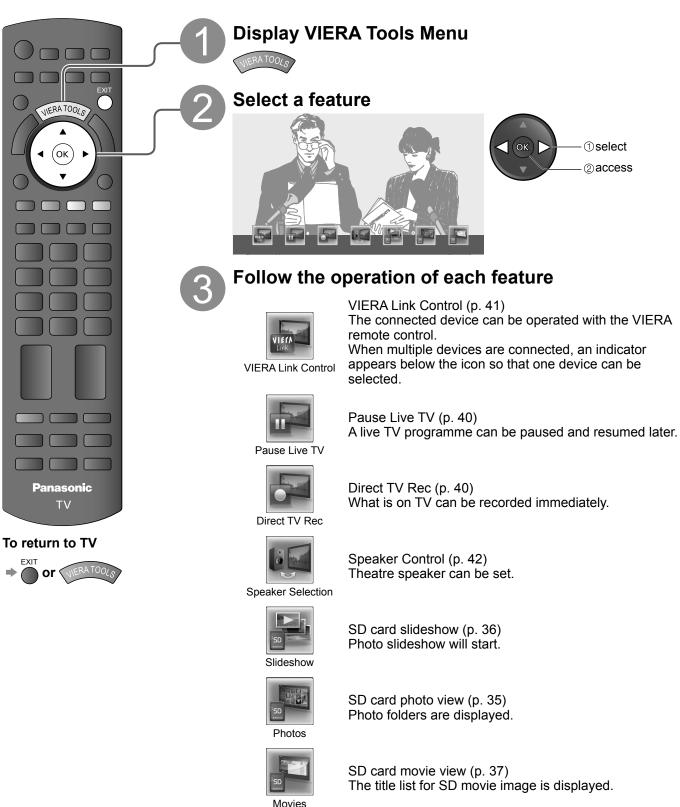


Note

- 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.
- Easy playback may be available by using the remote control for Player theatre, Blu-ray Disc theatre or Amplifier. Read the manual of the equipment.
- "HDAVI Control 4" is the newest standard (current as of December, 2008) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.

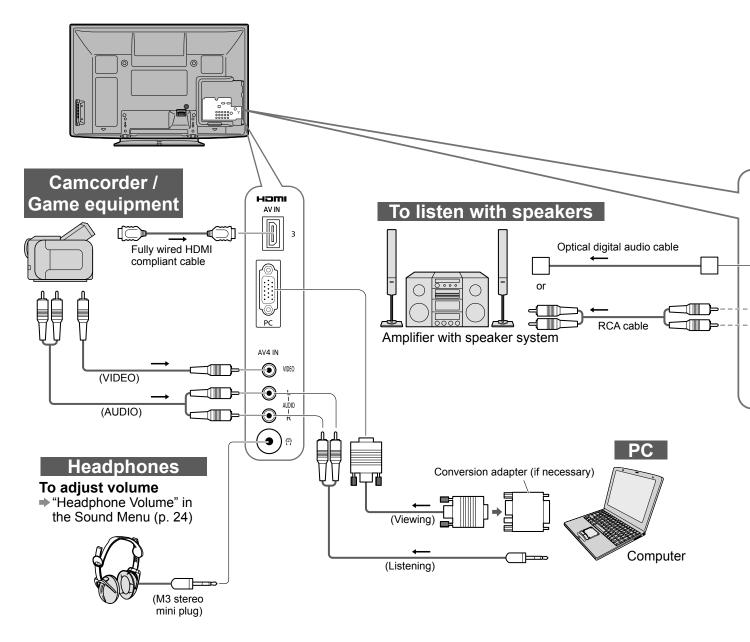
VIERA Tools

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



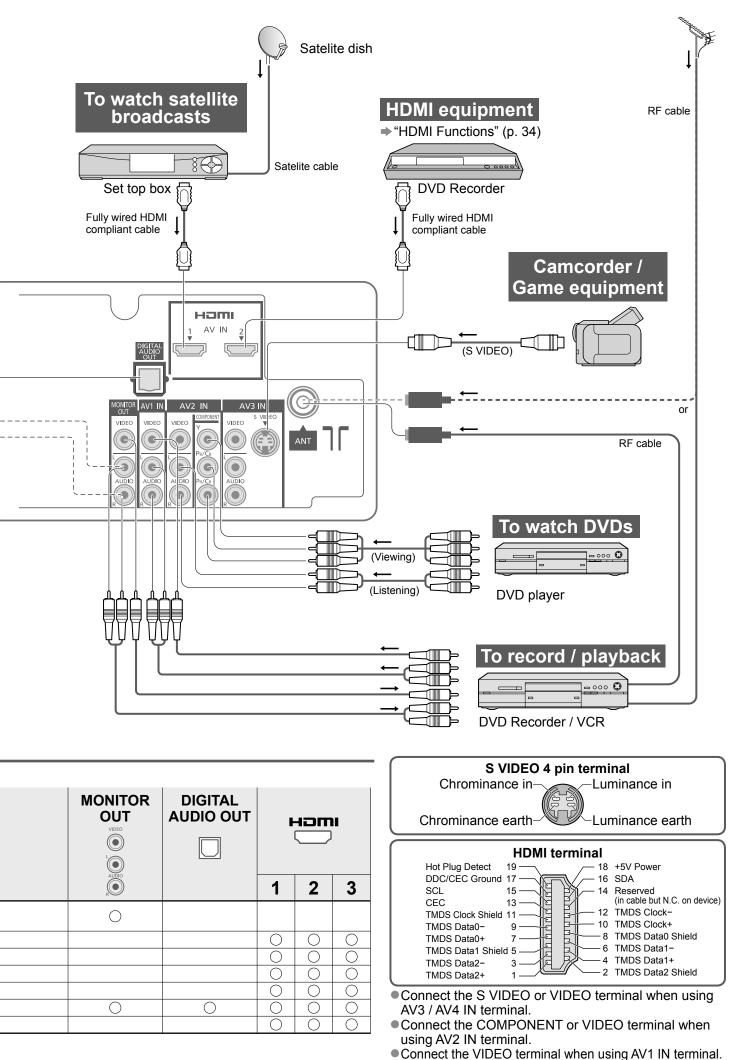
External Equipment

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 | ypes of connectable equipment to each terminal | | | | |
|--|--|--------|--------|---------------------------------|--|
| Terminal Recording / Playback (equipment) | AV1 IN | AV2 IN | AV3 IN | AV4 IN (Side panel of TV) | |
| To record / playback videocassettes / DVDs (VCR / DVD recorder) | 0 | 0 | 0 | 0 | |
| To watch DVDs (DVD player) | 0 | 0 | 0 | 0 | |
| To watch camcorder images (Video camera) | 0 | 0 | 0 | 0 | |
| To watch satellite broadcasts (Set top box) | 0 | 0 | 0 | 0 | |
| To play games (Game equipment) | 0 | 0 | 0 | 0 | |
| To use amplifier with speaker system | | | | | |
| VIERA Link | | | | | |

: Recommended Connection



Technical Information

| | Channel Allocation | h (Analogue TV r | 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 (Dig | gital TV mode) | |
| Rating | Meaning | Rating | Meaning |
| - | Not classified | M | Mature |
| | | | |
| Р | Pre school | MA 15+ | Mature Adult 15+ |
| Р С | Pre school Children | MA 15+ AV 15+ | Mature Adult 15+ Adult strong Violence 15+ |
| · · · | | | |

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)

 $\square \nabla \nabla$ 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 | CD (| I | П | \bigtriangledown |

NICAMUsed 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 $\dashrightarrow \nabla$ | I V | $\bigcirc \dashrightarrow \bigtriangledown$ | I → I ↓ ↓ ↓ |

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 $\dashrightarrow \nabla$ | I 🕶 I | $\bigcirc \dashrightarrow \bigtriangledown$ |

 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.

Cautions in handling SD Card

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

Data format for Card browsing

Photo : Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards Data format - Baseline JPEG (Sub-sampling 4:4:4, 4:2:2 or 4:2:0)

Max. number of files - 9,999

Image resolution - 160 × 120 to 10,000,000

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

 Compliant card type (maximum capacity): SDHC Card (32 GB), SD Card (2 GB) 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 DCF formatted (i.e. TIFF, BMP).

• A data modified with a PC may not be displayed.

Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.

• Partly degraded files might be displayed at a reduced resolution.

• All ".JPG" extension 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 | The file is broken or unreadable. The TV does not support the format. (For the applicable formats and data, see above.) |
| Please confirm the SD card is OK | The inserted SD card has a problem. |
| No SD card inserted | ●Insert a SD Card. |
| No valid file to play | The card has no data. |
| Over 9999 pictures found. (max. is 9999) | Maximum valid number of photos is 9,999. |
| This operation is not possible | Your operation is not available. |

Technical

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

| Aspect | 4:3 | 1,440 × 1,080 pixels |
|--------|------|----------------------|
| Aspeci | 16:9 | 1,920 × 1,080 pixels |

D-sub 15-pin connector signal

| | Pin | No. | Signal Name | Pin No. | Signal Name | Pin No. | Signal Name |
|------------------|-----|-----|--------------------|------------|--------------------|---------|--------------------|
| | Ċ | 1) | R | 6 | GND (Ground) | (1) | NC (not connected) |
| 280 | (2 | 2) | G | \bigcirc | GND (Ground) | (12) | NC (not connected) |
| 3 3 1 1 | C | 3 | В | 8 | GND (Ground) | (13) | HD |
| ⊕ _∭ ⊕ | (4 | 4) | NC (not connected) | 9 | NC (not connected) | (14) | VD |
| 5 6 | (L | 5 | GND (Ground) | 10 | GND (Ground) | 15 | NC (not connected) |

Input signal that can be displayed

COMPONENT (Y, PB/CB, PR/CR), 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 | * | * |
| <u>1,125 (1,080) / 60i</u> | * | * |
| 1,125 (1,080) / 50i | * | * |
| <u>1,125 (1,080) / 60p</u> | | * |
| 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.

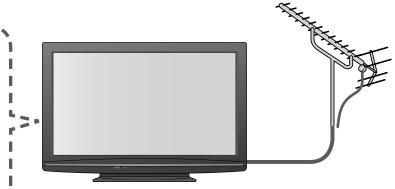
An error message appears

Follow the message's instructions.
If the problem persists, contact the authorized Service Centre.

"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 |
|---------|---|--|
| | Chaotic image, noisy | Change the setting of "P-NR" in the Picture Menu (to remove noise). (p. 24) Check nearby electrical products (car, motorcycle, fluorescent lamp). |
| c | No image can be displayed | •Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 24) |
| Screen | Blurry or distorted image (no sound or low volume) | •Reset channel. (p. 32) |
| | Unusual image is displayed | •Turn off the TV with Mains power On / Off switch, then turn it on again. |
| | "Shop" appears on screen at switch on | • "Shop" was selected in "Auto Tuning" (p. 12). Reset settings in "Shipping Condition" (p. 32), then select "Home" in "Auto Tuning" (p. 12). |
| 5 | No sound is produced | Is "Sound Mute" active? (p. 10) Is the volume set to the minimum? |
| billioc | Sound level is low or sound is distorted | Sound signal reception may be deteriorated. Set "MPX" (p. 24) in the Sound Menu to "Mono". |

Technical Information Frequently Asked Questions

Technical

<u>.</u>9

FAQs

| | Problem | | Actions | | | |
|------------|--|--|--|--|--|--|
| ІМОН | Sound is unusual | | Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 / 3 Input" setting in the Sound Menu. (p. 25) If digital sound connection has a problem, select analogue sound connection. (p. 34) | | | |
| | Pictures from external equipment are unusual when the equipment is connected via HDMI | | Is the HDMI cable connected properly? (p. 44) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 48) Use an equipment compliant with EIA/CEA-861/861B. | | | |
| 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 | | 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. TV | | | |
| | After Digital TV Auto Tuning only some or no services are found | | Check to ensure your area is covered by DVB transmissions. 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. 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. | | | |
| | Picture regularly breaks up on some programmes, or "No Signal" message | | 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. 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. 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. When "No Signal" message is displayed check TV aerial connection. 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 at the stable picture. | | | |
| | Picture very infrequently breaks up on some or all programmes | | 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. Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system. | | | |
| Other | TV takes so long to turn on | | Like your computer, the TV has to run a number of diagnostic and software checks before it can display any programmes. | | | |
| | The programme cannot be changed | | ●Is the TV in Teletext mode? (p. 18) | | | |
| | The programme cannot be selected | | Is the programme skipped? (p. 29) | | | |
| | TV goes into "Standby mode" | | Off Timer function is activated. The TV enters "Standby mode" about 30 mins. after analogue broadcasting ends. | | | |
| | The remote control does not work | | Are the batteries installed correctly? (p. 7)Has the TV been switched On? | | | |

Specifications

| | | | TH-P42S10A | TH-P46S10A | TH-P50S10A | | |
|----------------------------------|-------------------------|----------------------------|---|---|--|--|--|
| Power Source | | ce | AC 220 - 240 V, 50 / 60 Hz | • | | | |
| nption | Power | rating | 350 W | 400 W | 430 W | | |
| Power Consumption | Norma | ormal (Home) mode 194 W | | 232 W | 269 W | | |
| Power | Standby condition 0.4 W | | 0.4 W | 0.4 W | 0.4 W | | |
| Display panel | Aspect Ratio | | 16:9 | | | | |
| | Visible screen size | | 106 cm (diagonal) 921 mm (W) × 518 mm (H) | 117 cm (diagonal) 1,019 mm (W) × 573 mm (H) | 127 cm (diagonal) 1,105 mm (W) × 622 mm (H) | | |
| Dis pai | Number of pixels | | 2,073,600 (1,920 (W) × 1,080 (H)) [8,100 × 768 dots] | | | | |
| | Speaker | | 160 mm × 40 mm × 2 pcs, 6 Ω | | | | |
| Sound | Audio Output | | 20 W (10 W + 10 W), 10% THD | | | | |
| Sou | Headphones | | M3 (3.5 mm) stereo mini Jack × 1 | | | | |
| PC signals | | | VGA, SVGA, XGA SXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz | | | | |
| Receiving Systems / Band name | | | PAL B/G Reception of Off air broadcasts | | | | |
| | | | Digital TV7 MHz VHF / UHF (Australia) free-to-air TV broadcast receptionPAL 60 HzPlayback of NTSC tape from some PAL Video recorders (VCR)M.NTSCPlayback from M. NTSC Video recorders (VCR)NTSCPlayback from NTSC Video recorders (VCR) | | | | |
| Aeri | al - Rea | r | Standard Belling & Lee connector | | | | |
| Operating Conditions | | | Temperature: 0 °C - 35 °CHumidity: 20 % - 80 % RH (non-condensing) | | | | |
| | AV1 | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | |
| Connection Terminals | Input | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | |
| | | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | |
| | AV2 | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | |
| | Input | COMPONENT | Y Pb/Cb, Pr/Cr | 1.0 V[p-p] (including synchronization) ±0.35 V[p-p] | | | |
| | A\/2 | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | |
| | Input | AV3 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 | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] | | | |
| | Input | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | |
| | Monitor | AUDIO L - R | RCA PIN Type × 2 | 0.5 V[rms] (high impedance) | | | |
| | Output | VIDEO | RCA PIN Type × 1 | 1.0 V[p-p] (75 Ω) | | | |
| | <u> </u> | HDMI1 - 3 Input | TYPE A Connectors | | | | |
| | Others | 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 × 704 mm × 334 mm (With Pedestal) | (With Pedestal) | 1,218 mm × 814 mm × 401 mm (With Pedestal) 1,218 mm × 769 mm × 105 mm (TV only) | | |
| Mass | | | 27.0 kg Net (With Pedestal) 25.0 kg Net (TV only) | 31.0 kg Net (With Pedestal) 29.0 kg Net (TV only) | 34.0 kg Net (With Pedestal) 32.0 kg Net (TV only) | | |

Note

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

LicenceFrequently Asked Questions Specifications