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
   (b) Video or Audio Heads and Styli resulting from wear and tear in normal use
   (c) Shaver Heads or Cutters
   (d) Cabinet Parts
   (e) User replaceable Batteries
   (f) Microwave Oven cook plates
   (g) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (ink/Ribbon), Film Cartridge, Printer Heads
   (h) Kneader mounting shaft unit
   (i) 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.
   • 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);
     (b) Convection/Combination Microwave Ovens (screen size greater than 103 cm);
     (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 or by phone on 132 600
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited
Locked Bag 505, Frenchs Forest, NSW 2086
www.panasonic.com.au

PRO-019-F01 Issue: 3.0 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: TH-42PX7A
Serial Number:

Matsushita Electric Industrial Co., Ltd.
Web Site: http://panasonic.net/
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Printed in China
Turn your own living room into a movie theatre!

Experience an amazing level of multi-media excitement

- Receive digital terrestrial services using an integrated (Digital Video Broadcasting) tuner
- Sharp pictures with HDMI terminal
- Create home theatre and DVD recorder link-ups with “VIERA Link” without complicated settings!

Quick Start Guide

- Receive digital terrestrial services using an integrated (Digital Video Broadcasting) tuner
- Sharp pictures with HDMI terminal
- Create home theatre and DVD recorder link-ups with “VIERA Link” without complicated settings!

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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 grounding 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.

**Notes**

**When cleaning the TV, remove the mains plug**
(Cleaning an energized TV may cause electrical shock.)

**When TV will not be used for a long time, remove the mains plug**
- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

**Transport only in upright position**
- Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.

**Allow sufficient space around the TV for radiated heat**
- Minimum distance

<table>
<thead>
<tr>
<th>Side</th>
<th>Minimum distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td>10 cm</td>
</tr>
<tr>
<td>Right</td>
<td>10 cm</td>
</tr>
<tr>
<td>Above</td>
<td>7 cm</td>
</tr>
<tr>
<td>Below</td>
<td>10 cm</td>
</tr>
</tbody>
</table>

**Do not block the rear air vents**
- Blocked ventilation by curtains, etc. may cause overheating, fire or electrical shock.

**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 equipment**
- Electronic equipment
  - 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**
- Channel 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. 37)**

**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.

**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.

**Do not place foreign objects inside the TV**
- Do not let metal or flammable objects 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 stands / mounting equipment**
- Using an unauthorized stand or other fixtures may make the TV shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional stands / mounts (p. 6).

**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 tap or scratch the surface with your fingernail or other hard object.
- Use care not to subject surfaces to detergent. (A liquid inside the TV could lead to product failure.)
- Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).
- Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.

**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 near the TV.

**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: Dampen a soft cloth using a soft cloth dampened with clean water or diluted neutral detergent by 100 times of 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.
- Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

**Cabinet**
- 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, wipe the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

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

**Standard accessories**
- Remote Control Transmitter
  - EUR7651150
- Batteries for the Remote Control Transmitter (2)
- R6 (AA)
- Mains Lead
- Pedestal (ST-42H2-WK)
  - TBLX0024
- Clamper (2)
- Operating Instructions
- Guarantee
- Read the manual of the pedestal for installation.

**Remote control signal receiver**
- Changes the input mode
- Increases or decreases the programme position by one. When a function is already displayed, press to increase or decrease the selected function. When in Standby mode, switches TV On.

**Identifying Controls**

**Standby On / Off switch**
- (Switches TV On or Off standby)

**OK button to confirm selections and choices**
- Press after selecting programme positions to quickly change programme.

**TV Guide**
- (p. 12)

**OK button to confirm selections and choices**
- Press after selecting programme positions to quickly change programme.

**Main Menu**
- Press to access VIERA Link, Picture, Sound and Setup menus (p. 18)

**Changes aspect ratio**
- (p. 11)

**Access VIERA Link Menu**
- (p. 31)

**Programme / service change buttons**
- (0-9) and Teletext page buttons.
  - (p. 10 and p. 16)

**Programme Information**
- (p. 11)

**Selects services in sequence**

**Teletext Index**
- (p. 17)

**Subtitles**
- Showing subtitles (p. 11)

**VCR / DVD operations**
- (p. 15)

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- Showing subtitles (p. 11)

**VCR / DVD operations**
- (p. 15)

---

**Installing remote’s batteries**

1. Pull open
2. Note the correct polarity (+ or -)
3. Insert the clamper in a hole
4. Keep pushing both side snaps
5. Bundle the cables
6. To remove from the TV:
   - (1) To loosen:
     - Set the tip in the hooks
     - Keep pushing the knob
   - (2) To remove:
     - Keep pushing the knob

**Optional accessories**

- Pedestal
  - TY-ST42D1-WK
  - TY-ST42D2-WK
  - TY-WK42PV3W
- Wall-hanging bracket (vertical)
  - TY-WK42PR2W
  - TY-WK42PR3W

**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 plasma TV stand or 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.

---

**Quick Start Guide**

**Identifying Controls**

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- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.
**Basic Connection**

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

**Example 1 Connecting aerial**

**TV only**

Rear of the TV

**Example 2 Connecting DVD Recorder / VCR**

**TV, DVD Recorder or VCR**

If your recorder is not available for DVB ⇒ p. 38

Rear of the TV

**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.

**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**

   (Takes a few seconds to be displayed)

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

2. **Select your state**

   - Select State / Territory
     - New South Wales / Australian Capital Territory
     - Queensland
     - South Australia
     - Tasmania
     - Western Australia
     - Victoria
     - Northern Territory
     - Victoria

3. **Start Auto Tuning**

   - Auto Tuning will start to search for TV services and store them in the numbered order as specified by the broadcasters.

   **Auto Tuning is now complete and your TV is ready for viewing.**

   - To edit channels
     - Editing and Setting Channels (p. 24)
   - If tuning has failed
     - “Auto Tuning” (p. 24).
   - 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.

**Using the On Screen Displays**

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

- **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

**ON SCREEN HELP Instructions box**

(example: Sound Menu)

**Quick Start Guide**

- Basic Connection
- Auto Tuning

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

**Please ensure that the unit is disconnected from the mains socket before attaching or disconnecting any leads.**

**When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.**

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  - 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.
Watching TV

1. Turn power on
   - Mains power On/Off switch should be On.

2. Select DVB (Digital Video Broadcasting) or Analogue
   - You can also select the mode using the TV button on the front panel of the TV.

3. Select a service
   - To select the two or three-digit programme number, e.g. 39
   - (in a short time)

   1st press: Display banner
   2nd press: Banner + programme synopsis (DVB)
   3rd press: Exit

   Information banner

   - Information of another channel
   - Information on next programme (DVB)
   - To watch the programme listed in the banner
   - Information banner operation

   Select a service using Information banner

   - To set display timeout
   - “Banner Display Timeout” (p. 21)
   - To hide
   - Appears also when changing service.

   Select a service using TV Guide
   - “Using TV Guide” (p. 12)

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

Other useful functions (Operate after 3)

- Hold
  - Freeze / unfreeze picture

- Display subtitles
  - Display / hide subtitles (if available)
  - This is the same as turning the teletext on and selecting P801.
  - Channel changing is not possible when this function is active.

- Display the current programme status
  - Volume Correction
  - Adjusts volume of individual channel or input mode
  - Note
  - Also possible to change the settings in Menu list (p. 20).

- Display programme information

- Display information banner

- Change the aspect ratio
  - Enjoy viewing the picture at its optimum size and aspect.
  - To change the mode
  - Display Aspect Selection list
  - During the list is displayed, select the mode
  - To change the mode using the ASPECT button only
  - (Press repeatedly until you reach the desired mode)
  - Note
  - In DVB mode, aspect ratio is fixed at 16:9.
Using TV Guide

TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of programmes currently broadcast and future broadcasts over the next seven days (depending on the broadcaster). Analogue broadcasts will be listed after DVB broadcasts. “D” means DVB channel and “A” means Analogue channel.

View TV Guide

- To previous day (DVB mode)
  - R
- To next day (DVB mode)
  - G
- To view a programme list of the selected type (DVB mode)
  - Y
- To view a programme list of the selected favourites list
  - B

Other useful functions (Operate after viewing TV Guide)

- Select programme
- View details

Select the programme now on the air

- To return to the start page

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.
Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input. To connect the equipment (p. 8)
The Remote Control is capable of operating some functions of selected Panasonic external equipment.

1. Display the Input select menu

2. Select the input mode connected to the equipment
   - You can also select the input using the AV button on the remote control or the front panel of the TV.
   - Press the button repeatedly until the desired input is selected.
   - You can label or skip each input modes ⇒ “Input Labels” (p. 27)

3. View Displays the selected mode

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

- **VCR / DVD switch**
  - Select VCR to operate Panasonic VCR or DVD equipment
  - Select DVD to operate Panasonic DVD equipment or Player home theatre

<table>
<thead>
<tr>
<th><strong>POWER</strong></th>
<th>Standby</th>
</tr>
</thead>
</table>
| Set to Standby mode / Turn on

<table>
<thead>
<tr>
<th><strong>Programme</strong></th>
<th>Programme Up / Down</th>
</tr>
</thead>
</table>
| Select programme

<table>
<thead>
<tr>
<th><strong>REC</strong></th>
<th>Record</th>
</tr>
</thead>
</table>
| Start recording

- **Setting your remote control to operate Panasonic VCR, DVD, etc.**
  1. Set the VCR / DVD switch to the appropriate position
  2. Press and hold **POWER** during the following operations
  3. Enter the appropriate code for the equipment to be controlled, see table below

<table>
<thead>
<tr>
<th>“VCR” position</th>
<th>“DVD” position</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Equipment</strong></td>
<td><strong>Code</strong></td>
</tr>
<tr>
<td>VCR</td>
<td>10 (default)</td>
</tr>
<tr>
<td>DVD</td>
<td>11</td>
</tr>
<tr>
<td><strong>Equipment</strong></td>
<td><strong>Code</strong></td>
</tr>
<tr>
<td>DVD</td>
<td>70 (default)</td>
</tr>
<tr>
<td>Player home theatre</td>
<td>71</td>
</tr>
</tbody>
</table>

- **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.

- **Note**
  - Confirm correct operation after the code changed.
  - The codes will be reset to default values if batteries are replaced.
  - “DVD” means DVD player, DVD recorders and Recorder home theatre.
  - Some operations may not be possible on some equipment models.
Viewing Teletext

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

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

To select among subject blocks ➔ B
To select next subject within the subject block ➔ Y
(After the last subject, it moves to the next subject block.)

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

■ To change mode ➔ “Teletext” in Setup Menu (p. 21)

Switch to Teletext

TEXT Displays Index (content varies depending on the broadcasters)

Select the page

or

or

■ To adjust contrast ➔ TEXT

■ To return to TV ➔ INDEX

Using teletext conveniently

Reveal hidden data

FULL / TOP / BOTTOM

Reveal hidden words e.g. quiz page answers

MENU ➔ R ➔ Re-hide ➔ R

■ Hold the current page without updating

Stop or resume automatic updating

■ To resume ➔ HOLD

INDEX

Return to the main index page

INDEX

Call up a favourite pages

STTL ➔ Call up the page stored in “blue”.
Factory setting is “P801” (subtitle page).

Watch TV and Teletext in two windows at once

MENU ➔ (Press twice)
Select Picture and text
On or Off

Operations can be made only in Teletext screen.

View frequently viewed pages in the colour bar

(List mode only)

As page is displayed

CORRESPONDING COLOUR BUTTON ➔ press and hold

The number changes to white.

■ To change stored pages

Colour button you want to change ➔ Enter new page number ➔ press and hold

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

■ To view specific sub page

Enter the 4-digit number
example: P6

Sub pages:
The number of sub pages varies depending on the broadcasters (up to 79 pages).
It may take some time for searching, during which time you can watch TV.

Watch TV while waiting for update

■ View the TV picture while searching for a teletext page

Teletext automatically updates itself when new information becomes available.

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

3. Select the item
   - Select

4. Adjust or select
   - Change
   - Store or access (Required by some functions)

- Choose from among alternatives
  - Number and positions of alternatives

- Adjust using the slide bar
  - Sharpness

- Go to the next screen
  - Displays the next screen

- To change menu pages
  - Up
  - Down

Note
- To return to TV at any time
  - EXIT
- To return to the previous screen
  - RETURN
- To initialize all settings
  - "Shipping Condition" (p. 26)

Only available items can be selected.
### Menu list

<table>
<thead>
<tr>
<th>Menu</th>
<th>Item</th>
<th>Adjustments / Configurations (alternatives)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VIERA Link Control</strong></td>
<td>Controls the connected Panasonic equipment</td>
<td><em>Easy control only with VIERA remote control</em> (p. 31)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Speaker control</em> (p. 31)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.</td>
</tr>
<tr>
<td><strong>Speaker Selection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Picture</strong></td>
<td>Viewing Mode</td>
<td>Basic picture mode (<em>Dynamic / Normal / Cinema</em>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Set for each input signal</em></td>
</tr>
<tr>
<td></td>
<td>Contrast, Brightness, Colour, Sharpness</td>
<td>Adjusts colour, brightness, etc. for each picture mode to suit your taste</td>
</tr>
<tr>
<td></td>
<td>Tint</td>
<td>Adjusts tint of image</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>For NTSC signal reception only</em></td>
</tr>
<tr>
<td></td>
<td>Colour Balance</td>
<td>Chooses the colour balance of the entire image (<em>Cool / Normal / Warm</em>)</td>
</tr>
<tr>
<td></td>
<td>Colour Management</td>
<td>Automatically adjusts colours to vivid ones (<em>Off / On</em>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Not valid on PC signal</em></td>
</tr>
<tr>
<td></td>
<td>P-NR</td>
<td>Picture Noise Reduction</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Automatically reduces unwanted picture noise (<em>Off / Normal / Dynamic / Auto</em>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Not valid on HDMI, PC signal or DVB</em></td>
</tr>
<tr>
<td></td>
<td>MPEG NR</td>
<td>Automatically reduces noise for watching DTV, DVD and VCD (<em>Off / Min / Mid / Max</em>)</td>
</tr>
<tr>
<td></td>
<td>3D-COMB</td>
<td>automatically makes still pictures and slow pictures look more vivid (<em>Off / On</em>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>For PAL or NTSC signal reception only</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Not valid on S-Video, components, PC and HDMI</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Cannot be used with DVB</em></td>
</tr>
<tr>
<td></td>
<td>Reset Picture Defaults</td>
<td>Press the OK button to reset the present Picture Mode to the default settings</td>
</tr>
<tr>
<td><strong>Sound</strong></td>
<td>Mode</td>
<td>Basic sound mode (<em>Music / Speech</em>)</td>
</tr>
<tr>
<td></td>
<td>Bass</td>
<td>Adjusts the output level of deep bass</td>
</tr>
<tr>
<td></td>
<td>Treble</td>
<td>Adjusts the output level of high-pitch, shrill sound</td>
</tr>
<tr>
<td></td>
<td>Balance</td>
<td>Adjusts volume level of right and left speakers</td>
</tr>
<tr>
<td></td>
<td>Surround</td>
<td>Surround sound settings (<em>Off / On</em>)</td>
</tr>
<tr>
<td></td>
<td>Volume Correction</td>
<td>Adjusts volume of individual channel or input mode</td>
</tr>
<tr>
<td></td>
<td>DVB Audio Preference</td>
<td>Selects the initial setting for Audio tracks (<em>Dolby Digital / MPEG</em>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Dolby Digital</em>: A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>MPEG</em>: An audio compression method that compresses audio to small size without any considerable loss of audio quality.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>DVB mode only</em></td>
</tr>
<tr>
<td></td>
<td>SPDIF Selection</td>
<td>Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (<em>Auto / PCM</em>)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Auto</em>: Dolby Digital is output as Dolby Digital Bitstream. MPEG is output as PCM.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>PCM</em>: Dolby Digital is output as PCM. MPEG is output as PCM.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>DVB mode only</em></td>
</tr>
<tr>
<td></td>
<td>MPEG Audio Level</td>
<td>Normally, MPEG sound is larger than Dolby Digital one</td>
</tr>
<tr>
<td></td>
<td></td>
<td>You can adjust the audio level of MPEG as the initial setting</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>0dB to +10dB in +2dB reductions</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>DVB mode only</em></td>
</tr>
<tr>
<td></td>
<td>HDMI Input</td>
<td>Select to fit the input signal (<em>Auto / Digital / Analogue</em>) (p. 29)</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Auto</em>: Automatic detection of digital or analogue sound source</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Digital</em>: HDMI cable connection</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Analogue</em>: HDMI-DVI adapter cable connection</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>HDMI input mode only</em></td>
</tr>
<tr>
<td></td>
<td>Reset Sound Defaults</td>
<td>Press the OK button to reset the present Sound Mode to the default settings</td>
</tr>
</tbody>
</table>

### Menu list

<table>
<thead>
<tr>
<th>Menu</th>
<th>Item</th>
<th>Adjustments / Configurations (alternatives)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DVB Favourites Edit</strong></td>
<td>Creates list of favourite programmes (p. 23)</td>
<td></td>
</tr>
<tr>
<td><strong>Auto Tuning</strong></td>
<td>Automatically sets the channels received in the area (p. 24)</td>
<td></td>
</tr>
<tr>
<td><strong>Analogue Programme Edit</strong></td>
<td>Edits analogue channels (p. 25)</td>
<td></td>
</tr>
<tr>
<td><strong>DVB Manual Tuning</strong></td>
<td>Sets the DVB channels manually (p. 25)</td>
<td></td>
</tr>
<tr>
<td><strong>Analogue Manual Tuning</strong></td>
<td>Sets the analogue channels manually (p. 25)</td>
<td></td>
</tr>
<tr>
<td><strong>Add New DVB Services</strong></td>
<td>Add new DVB services (p. 25)</td>
<td></td>
</tr>
<tr>
<td><strong>New Service Message</strong></td>
<td>Selects whether to give a notification message when a new DVB service is found (p. 25)</td>
<td></td>
</tr>
<tr>
<td><strong>DVB Signal Display</strong></td>
<td>Checks the DVB signal condition (p. 25)</td>
<td></td>
</tr>
<tr>
<td><strong>Off Timer</strong></td>
<td>Sets the time the TV automatically turns Off (<em>Off / 15 / 30 / 45 / 60 / 75 / 90 minutes</em>)</td>
<td></td>
</tr>
<tr>
<td><strong>Teletext</strong></td>
<td>Teletext display mode (<em>TOP (FASTEXT) / List</em>) (p. 16)</td>
<td></td>
</tr>
<tr>
<td><strong>System Update</strong></td>
<td>Downloads new software to TV (p. 23)</td>
<td></td>
</tr>
<tr>
<td><strong>Power Save</strong></td>
<td>Reduces brightness of picture to economise on power consumption (<em>Off / On</em>)</td>
<td></td>
</tr>
<tr>
<td><strong>Side Panel</strong></td>
<td>Increases the brightness of the side panel (<em>Off / Low / Mid / High</em>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>The recommended setting is &quot;High&quot; to prevent panel &quot;image retention&quot;</em></td>
</tr>
<tr>
<td><strong>Input Labels</strong></td>
<td>Labels or skips each input terminals (p. 27)</td>
<td></td>
</tr>
<tr>
<td><strong>Banner Display Timeout</strong></td>
<td>Sets how long the information banner (p. 11) stays on screen</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>0 (No display) to 10 sec.</em> in 1-sec. increments</td>
</tr>
<tr>
<td><strong>AUTO DECODE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>VIERA Link</strong></td>
<td>Sets to use VIERA Link functions (p. 30)</td>
</tr>
<tr>
<td></td>
<td><strong>Power off Link</strong></td>
<td>Set to &quot;Set&quot; to use Power off Link function (<em>No / Set</em>) (p. 31)</td>
</tr>
<tr>
<td></td>
<td><strong>Power on Link</strong></td>
<td>Set to &quot;Set&quot; to use Power on Link function (<em>No / Set</em>) (p. 31)</td>
</tr>
<tr>
<td><strong>Region Select</strong></td>
<td>Selects the region where you live to adjust the standard time (<em>NSW/ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania</em>) (p. 23)</td>
<td></td>
</tr>
<tr>
<td><strong>Daylight Saving Time</strong></td>
<td>Select time offset from the standard time for Summer Time</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Auto</em>: Automatic detection of daylight saving time</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>1 / 2Hr / +1 Hr</em>: <em>Set to &quot;Auto&quot; normally</em></td>
</tr>
<tr>
<td><strong>Refresh Rate</strong></td>
<td>Changes the image processing of the panel (depending on the input signal) (<em>50Hz / 100Hz</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Set to &quot;100Hz&quot; normally</em></td>
</tr>
<tr>
<td><strong>Software Licence</strong></td>
<td>Displays the software licence information</td>
<td></td>
</tr>
<tr>
<td><strong>System Information</strong></td>
<td>Displays the system information of this TV</td>
<td></td>
</tr>
</tbody>
</table>

*A different menu will be displayed while PC or DVI to HDMI adapter cable is used. (p. 28 and p. 29)  
Only available items can be selected.*
DVB Settings (DVB mode)

DVB Settings provide access to various advanced features.

1. If in Analogue mode, select DVB.
2. Display the menu.
3. Select “Setup”.
4. Select “DVB Favourites Edit”, “System Update”, “Region Select” or “Daylight Saving Time”.
5. Set.

DVB Settings (DVB mode) provide access to various advanced features.

- **Region Select**: Set the region where you live to adjust the standard time.
  - The time contained in the broadcast signal is UTC (Universal time, coordinated).
  - Normally select “Auto”.
  - If there is a gap between displayed time and actual time, set this function.

- **Daylight Saving Time**: Adjust the standard time for Summer Time.
  - Normally select “Auto”.
  - If there is a gap between displayed time and actual time, set this function.

- **Update TV’s software system**
  - **System Update**: Download new software to TV.
    - For details (p. 35)
    - 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.
  - **Update TV’s software system**: Set “System Update Search Now” to On. Automatically performs a search in standby and downloads an update, if any software updates are available.
  - **Note**: Download may take about 20 min.
    - During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.

- **List favourite services**
  - **DVB Favourites Edit**: Create your favourite service List from various broadcasters (up to 4: FavList1 / FavList2 / FavList3 / FavList4).
  - The list is displayed in information banner (p. 11), TV Guide (p. 12) and then easily accessed.
  - **To add a service to the list**:
    - Select the service and add it to the list.
    - To edit List:
      - Select the field of List to edit and:
        - To name the List:
          - Select the character and:
            - To move the service:
              - Select the new position
            - To delete the service:
              - To delete all services
        - Note:
          - Channel numbers cannot be changed, due to broadcast restrictions.

- **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).
  - **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.

- **System Update**
  - **Auto Update Search in Standby**: Set “On” or “Off”.
  - **To update immediately**:
    - Select “System Update Search Now” and then set “On” or “Off”.
    - Searches for an update (for several min.) and displays a corresponding message if any.
    - Download:
      - Download may take for about 20 min.
    - Note:
      - During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.

- **Create your favourite service List from various broadcasters (up to 4: FavList1 / FavList2 / FavList3 / FavList4).**
  - The list is displayed in information banner (p. 11), TV Guide (p. 12) and then easily accessed.

- **Select a service and add it to the list**:
  - A service is added to the list.
  - To add all services to the list.
  - To display another List:
    - To edit List:
      - Select the field of List to edit and:
        - To name the List:
          - Select the character
        - To move the service:
          - Select the new position
        - To delete the service:
          - To delete all services
        - Note:
          - Channel numbers cannot be changed, due to broadcast restrictions.

- **Download new software to TV.**
  - For details (p. 35)
  - 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:
      - Channel numbers cannot be changed, due to broadcast restrictions.
  - **Update TV’s software system**
    - **System Update**: Download new software to TV.
      - For details (p. 35)
      - 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.
    - **To update immediately**:
      - Select “System Update Search Now” and then set “On” or “Off”.
      - Searches for an update (for several min.) and displays a corresponding message if any.
      - Download:
        - Download may take for about 20 min.
      - Note:
        - During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.

- **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).
  - **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.

- **Create your favourite service List from various broadcasters (up to 4: FavList1 / FavList2 / FavList3 / FavList4).**
  - The list is displayed in information banner (p. 11), TV Guide (p. 12) and then easily accessed.
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    - To add all services to the list.
    - To display another List:
      - To edit List:
        - Select the field of List to edit and:
          - To name the List:
            - Select the character
          - To move the service:
            - Select the new position
          - To delete the service:
            - To delete all services
        - Note:
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  - **Download new software to TV.**
    - For details (p. 35)
    - 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:
      - Channel numbers cannot be changed, due to broadcast restrictions.
  - **Update TV’s software system**
    - **System Update**: Download new software to TV.
      - For details (p. 35)
      - 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.
    - **To update immediately**:
      - Select “System Update Search Now” and then set “On” or “Off”.
      - Searches for an update (for several min.) and displays a corresponding message if any.
      - Download:
        - Download may take for about 20 min.
      - Note:
        - During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.
  - **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).
  - **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.

- **Create your favourite service List from various broadcasters (up to 4: FavList1 / FavList2 / FavList3 / FavList4).**
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    - A service is added to the list.
    - To add all services to the list.
    - To display another List:
      - To edit List:
        - Select the field of List to edit and:
          - To name the List:
            - Select the character
          - To move the service:
            - Select the new position
          - To delete the service:
            - To delete all services
        - Note:
          - Channel numbers cannot be changed, due to broadcast restrictions.
  - **Download new software to TV.**
    - For details (p. 35)
    - 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:
      - Channel numbers cannot be changed, due to broadcast restrictions.
  - **Update TV’s software system**
    - **System Update**: Download new software to TV.
      - For details (p. 35)
      - 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.
    - **To update immediately**:
      - Select “System Update Search Now” and then set “On” or “Off”.
      - Searches for an update (for several min.) and displays a corresponding message if any.
      - Download:
        - Download may take for about 20 min.
      - Note:
        - During downloading, the TV will display a blank screen for 40 to 50 seconds. Do not interrupt the TV during this procedure.
  - **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).
  - **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.
Editing and Setting Channels

The current channel settings can be changed according to your needs and reception conditions. You can re-tune all TV channels when moving house or search for new services which may have recently started broadcasting.

Select DVB or Analogue

- “DVB Manual Tuning”, “Add New DVB Services”, “New Service Message” and “DVB Signal Display” are available in DVB mode only.
- “Analogue Programme Edit” and “Analogue Manual Tuning” are available in Analogue mode only.

Display the menu

Select “Setup”

With “Main Menu” select “Setup”

Select “Tuning Menu”

With “Tuning Menu” select

Select a function

With “Function” select

Set channels automatically

Auto Tuning

Access “Auto Tuning” Settings are made automatically

- All previous settings are erased.
- When the operation is completed, the digital service at programme position “1” will be displayed.
- If no DVB services are found, the first analogue service will be displayed.
- If tuning has not done completely ⇒ “DVB Manual Tuning”, “Analogue Manual Tuning”

For Auto Tuning, using the buttons on the front of the TV

- Press repeatedly until “Auto Tuning” appears ⇒ F
- Access “Auto Tuning” ⇒ TV
- Start “Auto Tuning” ⇒ F ⇒ To return to TV ⇒ TV

Set DVB channel manually

DVB Manual Tuning

Set Analogue channel manually

Analogue Manual Tuning

Add DVB service automatically

Add New DVB Services

Display a notification message

New Service Message

Check DVB signal

DVB Signal Display

Edit the analogue programme position settings

- To change channel number
- “Analogue Manual Tuning”

Edit

- To delete ⇒ R ⇒ After confirming, press R
- To add ⇒ Y ⇒ After confirming, press Y
- To move ⇒ Y ⇒ Select new position ⇒ Y
- To change the name of the broadcaster
- “Analogue Programme Edit” and “Analogue Manual Tuning” are available in Analogue mode only.

Set Analogue channel manually after Auto Tuning. If a VCR is connected with only the RF cable, select programme position “0”.

Any new services found will be added automatically.

The new service is added with the current settings saved as they are.

Selects whether to give a notification message when a new DVB service is found. (Off / On)

Selects a service and checks the DVB signal condition. Use for adjusting the direction of the aerial.

- To change the service during the menu appears

Signal Quality:
- Green bar ⇒ Good
- Yellow bar ⇒ Poor
- Red bar ⇒ Bad (Check the aerial)

Edit the analogue programme position settings

- To change channel number
- “Analogue Manual Tuning”

Edit

- To delete ⇒ R ⇒ After confirming, press R
- To add ⇒ Y ⇒ After confirming, press Y
- To move ⇒ Y ⇒ Select new position ⇒ Y
- To change the name of the broadcaster

Set Analogue channel manually after Auto Tuning. If a VCR is connected with only the RF cable, select programme position “0”.

Any new services found will be added automatically.

The new service is added with the current settings saved as they are.

Selects whether to give a notification message when a new DVB service is found. (Off / On)

Selects a service and checks the DVB signal condition. Use for adjusting the direction of the aerial.

- To change the service during the menu appears

Signal Quality:
- Green bar ⇒ Good
- Yellow bar ⇒ Poor
- Red bar ⇒ Bad (Check the aerial)
Restore Settings

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

1. Display the menu

2. Select “Setup”

3. Select “Shipping Condition”

4. Set

Check the message and initialise

Shipping Condition
Analogue & DVB tuning data will be erased. Are you sure? Are you sure?

Follow the on-screen instructions

• “Auto Tuning” will automatically start. (p. 9)
• To re-tune TV channels only, e.g. after moving house ⇒ “Auto Tuning” (p. 24)

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. 14)

1. Display the menu

2. Select “Setup”

3. Select “Input Labels”

4. Select a input terminal and set

To return to TV

The labels you set will be displayed in “Input Selection” menu (p. 14) or banner. • If “Skip” is selected, you cannot select the mode.

User input
You can name each input terminals freely.

Select “User input”
Set characters

(maximum: ten characters)
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. 32)

1. Select the external input
   - To return to TV ➤ TV
   - PC menu setting (changed as desired)
   - To make settings ➤ "How to Use Menu Functions" ① to ② (p. 18)

2. Select “PC”
   - Corresponding signals (p. 36)
   - If “H-freq.” or “V-freq.” is shown in red, the signals may not be supported.

Menu | Item | Adjustments / Configurations (options)
--- | --- | ---
**Picture**
Advanced PC Settings
- W/B High R: White balance of bright red area
- W/B High B: White balance of bright blue area
- W/B Low R: White balance of dark red area
- W/B Low B: White balance of dark blue area
- Gamma: (2.0 / 2.2 / 2.5 / S Curve)
- Reset PC Settings: Press the OK button to reset to the default settings

**Setup**
Input Resolution: Switches to a wide view ➤ VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) ➤ Options change depending on signals
- Clock: Set to the minimum level if noise occurs
- H-pos: Adjusts horizontal position ➤ ① and ② repeatedly adjusted
- V-pos: Adjusts vertical position
- Clock Phase: Eliminates flicker and distortion ➤ Adjust after Clock adjustment ➤ Set to the minimum level if noise occurs
- Sync: PC sync signal type (H & V / On G) ➤ H & V: Horizontal and Vertical sync from your PC (Most common sync format) ➤ On G: Sync on Green sync from your PC
- Reset PC Settings: Press the OK button to reset to the default settings

---

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 or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable. About connections, see “External Equipment” (p. 32).

**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 “HDMI Input” menu screen. (p. 20)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to “16:9”.
- This HDMI connector is “type A”.
- This HDMI connector is compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either “Component”, “S-VIDEO”, or “Video” to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals:
  - 480i, 480p, 576i, 576p, 720p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 36.

---

**DVI connection**
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (+2). When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (use AUDIO IN 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 ② (p. 18)

### DVI Position Settings

<table>
<thead>
<tr>
<th>Menu</th>
<th>Item</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Setup</strong></td>
<td>DVI Position Settings</td>
<td>Zoom: Adjusts horizontal position</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reset DVI Position Settings</strong></td>
<td>Press the OK button to reset to the default settings</td>
<td></td>
</tr>
</tbody>
</table>

---

Other items ➤ p. 20 and p. 21

(*)1: The HDMI logo is displayed on HDMI-compliant equipment.
(+2): Enquire at your local digital equipment retailer shop.
**VIERA Link “HDAVI Control™”**

- Enjoy additional HDMI Inter-Operability with Panasonic products which have “HDAVI Control” function.
- This TV supports “HDAVI Control 2” function.
- Connections to some Panasonic equipment (DVD Recorder Diga, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI cables allow you to interface them automatically.

The equipment with “HDAVI Control” function enables the following operations:

- Easy playback (p. 31)
- Power on Link (p. 31)
- Power off Link (p. 31)
- Speaker control (p. 31)

In addition, the equipment with “HDAVI Control 2” function enables the following operation:

- Easy control only with VIERA remote control (p. 31)

These features are limited to models incorporating Panasonic’s “HDAVI Control” and “VIERA Link”. 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.

Refer to individual manuals for compatibility information. About applicable equipment, consult your local Panasonic dealer.

**HDMI cable**

This function needs an HDMI compliant (fully wired) cable. Non-HDMI-compliant cables cannot be utilized.

It is recommended that you use Panasonic’s HDMI cable. Recommended part number:

- RP-CDHG15 (1.5 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG50 (5.0 m)

**Preparations**

Set the equipment to enable this function. Read the manuals of the equipment.

About connections, see “External Equipment” (p. 32). Read the manuals of the equipment too.

**For the first time / When adding new equipment, reconnecting equipment or changing setup**

After connection turn the equipment on and then switch the TV on. Select the input mode to HDMI (p. 14), and make sure that an image is displayed correctly.

---

### Display the menu

1. **Display the menu**
   - **Select “Setup”**
     - **VIERA Link**
       - **VIERA Link Settings**
         - **Select “VIERA Link” and set to “On”**

### Easy control only with VIERA remote control

- **Select “VIERA Link Settings”**
  - **Set to “Home Cinema” or “TV”**

### Easy playback

- **Display “VIERA Link Menu”**
- **Select “VIERA Link Control”**
- **Select the equipment you want to access**
- **Operate the menu of the equipment**

### Speaker control

- **Display “VIERA Link Menu”**
- **Select “Speaker Selection”**

---

**Preparations**

- Set the equipment to enable this function. Read the manuals of the equipment.
- About connections, see “External Equipment” (p. 32). Read the manuals of the equipment too.
- For the first time / When adding new equipment, reconnecting equipment or changing setup
  - After connection turn the equipment on and then switch the TV on.
  - Select the input mode to HDMI (p. 14), and make sure that an image is displayed correctly.

---

**Easy control only with VIERA remote control**

1. **Display “VIERA Link Menu”**
2. **Select “VIERA Link Control”**
3. **Select the equipment you want to access**
4. **Operate the menu of the equipment**

**Example:**

- **Power on Link Set**
  - When the connected Panasonic equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)

- **Power off Link**
  - When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

**TV**

- TV speakers are active.

**Home Cinema**

- Adjustment for equipment (automatically turned on if it is in Standby mode).

- Volume up / down
- Mute
- The sound of TV speakers is mute.
- When the equipment is turned off, TV speakers will be active.

**Speaker Selection**

- The equipment with the OPTION button of the equipment

**Easy playback**

- Automatic Input switching - When the connected Panasonic equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is not returned.

**HDMI cable**

- It is recommended that you use Panasonic’s HDMI cable. Recommended part number:
  - RP-CDHG15 (1.5 m)
  - RP-CDHG30 (3.0 m)
  - RP-CDHG50 (5.0 m)

**Preparations**

- Set the equipment to enable this function. Read the manuals of the equipment.
- About connections, see “External Equipment” (p. 32). Read the manuals of the equipment too.
- For the first time / When adding new equipment, reconnecting equipment or changing setup
  - After connection turn the equipment on and then switch the TV on.
  - Select the input mode to HDMI (p. 14), and make sure that an image is displayed correctly.

---

**Easy control only with VIERA remote control**

1. **Display “VIERA Link Menu”**
2. **Select “VIERA Link Control”**
3. **Select the equipment you want to access**
4. **Operate the menu of the equipment**

**Example:**

- **Power on Link Set**
  - When the connected Panasonic equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)

- **Power off Link**
  - When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

**TV**

- TV speakers are active.

---

**Preparations**

- Set the equipment to enable this function. Read the manuals of the equipment.
- About connections, see “External Equipment” (p. 32). Read the manuals of the equipment too.
- For the first time / When adding new equipment, reconnecting equipment or changing setup
  - After connection turn the equipment on and then switch the TV on.
  - Select the input mode to HDMI (p. 14), and make sure that an image is displayed correctly.

---

**Easy control only with VIERA remote control**

1. **Display “VIERA Link Menu”**
2. **Select “VIERA Link Control”**
3. **Select the equipment you want to access**
4. **Operate the menu of the equipment**

**Example:**

- **Power on Link Set**
  - When the connected Panasonic equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)

- **Power off Link**
  - When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

**TV**

- TV speakers are active.

---

**Preparations**

- Set the equipment to enable this function. Read the manuals of the equipment.
- About connections, see “External Equipment” (p. 32). Read the manuals of the equipment too.
- For the first time / When adding new equipment, reconnecting equipment or changing setup
  - After connection turn the equipment on and then switch the TV on.
  - Select the input mode to HDMI (p. 14), and make sure that an image is displayed correctly.

---

**Easy control only with VIERA remote control**

1. **Display “VIERA Link Menu”**
2. **Select “VIERA Link Control”**
3. **Select the equipment you want to access**
4. **Operate the menu of the equipment**

**Example:**

- **Power on Link Set**
  - When the connected Panasonic equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)

- **Power off Link**
  - When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

**TV**

- TV speakers are active.
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. 39).

### Types of connectable equipment to each connector

<table>
<thead>
<tr>
<th>Connector</th>
<th>AV1 IN</th>
<th>AV2 IN</th>
<th>AV3 IN</th>
<th>MONITOR OUT</th>
<th>DIGITAL AUDIO OUT</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recording / Playback (equipment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To record / playback videotapes / DVDs (VCR / DVD recorder)</td>
<td>○</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To watch camcorder images (Video camera)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To watch satellite broadcasts (Set top box)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To play games (Game equipment)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To use amplifier with speaker system</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIERA Link</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Recommended Connection

- **S VIDEO 4 pin terminal**
  - Chrominance in
  - Chrominance earth
- **HDMI terminal**
  - 18 -5V Power
  - 16 -SDA
  - 15 -SDA
  - 14 -Reserved (in cable but N.C. on device)

### Easy playback, Easy control

- **Only with VIERA remote control**

### Home Cinema

- **Panasonic DVD Recorder, HD Video Camera, etc.**
- **Speaker system**

### Easy playback, Easy control

- **Only with VIERA remote control**

- **Use fully wired HDMI compliant cable.**
- **Read the manuals of the equipment too.**

- **VIERA Link (p. 30)**
- **Use fully wired HDMI compliant cable.**
- **Read the manuals of the equipment too.**

- **Easy playback, Easy control only with VIERA remote control**

- **Home Cinema**
  - **Panasonic DVD Recorder**
  - **Player theatre**
  - **Speaker system**

### Other Connections

- **To watch satellite broadcasts**
  - **Set top box**
  - **Conversion adapter (if necessary)**

- **To watch DVDs**
  - **DVD player**

- **To listen with speakers**
  - **Amplifier with speaker system**
  - **Conversion adapter (if necessary)**

- **To record / playback**
  - **DVD Recorder / VCR**
  - **RF cable**

- **PC**
  - **Viewing**
  - **Listening**

- **Connect the S-VIDEO or VIDEO terminal when using AV1 IN terminals.**

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

- **Fully wired HDMI compliant cable.**
- **Read the manuals of the equipment too.**

- **VIERA Link (p. 30)**
- **Use fully wired HDMI compliant cable.**
- **Read the manuals of the equipment too.**

- **Easy playback, Easy control only with VIERA remote control**

- **Home Cinema**
  - **Panasonic DVD Recorder**
  - **Player theatre**
  - **Speaker system**

- **This slot is for services by the Panasonic dealer.**
Technical Information

Channel Allocation (Analogue mode)

<table>
<thead>
<tr>
<th>CH Display / Receive Channel</th>
<th>CH Display / Receive Channel</th>
<th>CH Display / Receive Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 0</td>
<td>S 6</td>
<td>CH 10</td>
</tr>
<tr>
<td>CH 5</td>
<td>S 10</td>
<td>CH 12</td>
</tr>
<tr>
<td>S 2</td>
<td>CH 6</td>
<td>S 11</td>
</tr>
<tr>
<td>J</td>
<td>CH 9</td>
<td>S 44</td>
</tr>
<tr>
<td>CH 5A</td>
<td>CH9A</td>
<td>CH 20</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CH 75</td>
</tr>
</tbody>
</table>

Rating (DVB mode)

<table>
<thead>
<tr>
<th>Rating</th>
<th>Meaning</th>
<th>Rating</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>-</td>
<td>Not classified</td>
<td>M</td>
<td>Mature</td>
</tr>
<tr>
<td>P</td>
<td>Pre school</td>
<td>MA 15+</td>
<td>Mature Adult 15+</td>
</tr>
<tr>
<td>C</td>
<td>Children</td>
<td>AV 15+</td>
<td>Adult strong Violence 15+</td>
</tr>
<tr>
<td>G</td>
<td>General</td>
<td>R</td>
<td>Restricted 15+</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance recommended</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Aspect Ratio

<table>
<thead>
<tr>
<th>Signal name</th>
<th>16:9</th>
<th>14:9</th>
<th>Just</th>
<th>4:3</th>
<th>4:3 Full</th>
<th>Zoom1</th>
<th>Zoom2</th>
<th>Zoom3</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAL</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>PAL 525/600</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>O</td>
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<tr>
<td>NTSC</td>
<td>O</td>
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<td>-</td>
<td>O</td>
<td>O</td>
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<tr>
<td>DVB-T</td>
<td>O</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>480i (50 Hz)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>576i (50 Hz)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>-</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>720p (50 Hz)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>720p (60 Hz)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>1,080i (50 Hz)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>1,080i (60 Hz)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>PC input</td>
<td>O</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Note

- The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9", black bands may appear at the top and bottom of the screen.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. (See the VCR manual.)
- To select the ratio manually: (Only "16:9" or "4:3" in PC mode)

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

14:9
Displays the image at the standard "14:9" without enlargement.

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.

Zoom1
Displays a "16:9" letterbox image (anamorphic) without distortion.

Zoom2
Displays a "2.35:1" letterbox (anamorphic) image full-screen without distortion. At "16:9" displays the image at its maximum (with slight enlargement).

Zoom3
Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.

Audio Signal

<table>
<thead>
<tr>
<th>Mode Indicator</th>
<th>STEREO</th>
<th>MAIN</th>
<th>SUB</th>
<th>MONO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>○○○○○○</td>
<td>○○○</td>
<td>○○○</td>
<td>○○○○○</td>
</tr>
<tr>
<td>NICAM</td>
<td>○○○○○○</td>
<td>○○○</td>
<td>○○○</td>
<td>○○○○○</td>
</tr>
</tbody>
</table>

Type of broadcast

- Regular broadcast
- Regular + NICAM MONO
- NICAM STEREO
- NICAM DUAL MONO

Mode Indicator

<table>
<thead>
<tr>
<th>Type of broadcast</th>
<th>Regular broadcast</th>
<th>Regular + NICAM MONO</th>
<th>NICAM STEREO</th>
<th>NICAM DUAL MONO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode Indicator</td>
<td>No Indicator</td>
<td>○○○○○○</td>
<td>○○○○○○</td>
<td>○○○○○○</td>
</tr>
</tbody>
</table>

Note

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

**Input signal that can be displayed**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y, Pb/Ca, Pr/Cr</td>
<td></td>
</tr>
<tr>
<td><em>Mark: Applicable input signal</em></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal name</th>
<th>COMPONENT</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>480i (60 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>480p (60 Hz)</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>576i (50 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>576p (50 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>720p (50 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>720p (60 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>1,080i (50 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>1,080p (60 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>1,080p (60 Hz)</td>
<td>+</td>
<td></td>
</tr>
<tr>
<td>1,080p (60 Hz)</td>
<td>+</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Signal name</th>
<th>Horizontal frequency (kHz)</th>
<th>Vertical frequency (Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>640 × 480 (70 Hz)</td>
<td>31.47</td>
<td>70.07</td>
</tr>
<tr>
<td>640 × 480 (68 Hz)</td>
<td>31.47</td>
<td>69.94</td>
</tr>
<tr>
<td>640 × 480 (67 Hz)</td>
<td>37.50</td>
<td>75.00</td>
</tr>
<tr>
<td>640 × 480 (60 Hz)</td>
<td>37.88</td>
<td>60.32</td>
</tr>
<tr>
<td>640 × 480 (50 Hz)</td>
<td>46.88</td>
<td>75.00</td>
</tr>
<tr>
<td>640 × 480 (48 Hz)</td>
<td>53.67</td>
<td>85.06</td>
</tr>
<tr>
<td>640 × 480 (46 Hz)</td>
<td>31.44</td>
<td>69.99</td>
</tr>
<tr>
<td>1,024 × 768 (60 Hz)</td>
<td>48.36</td>
<td>60.00</td>
</tr>
<tr>
<td>1,024 × 768 (70 Hz)</td>
<td>56.48</td>
<td>70.07</td>
</tr>
<tr>
<td>1,024 × 768 (75 Hz)</td>
<td>60.02</td>
<td>75.00</td>
</tr>
<tr>
<td>1,024 × 768 (85 Hz)</td>
<td>68.68</td>
<td>85.00</td>
</tr>
<tr>
<td>1,280 × 1,024 (60 Hz)</td>
<td>63.98</td>
<td>60.02</td>
</tr>
<tr>
<td>1,366 × 768 (60 Hz)</td>
<td>48.39</td>
<td>60.04</td>
</tr>
<tr>
<td>1,366 × 768 (65 Hz)</td>
<td>53.56</td>
<td>85.06</td>
</tr>
<tr>
<td>Macintosh 640 (840 × 480)</td>
<td>35.00</td>
<td>66.67</td>
</tr>
<tr>
<td>Macintosh 680 (832 × 624)</td>
<td>49.73</td>
<td>74.55</td>
</tr>
<tr>
<td>Macintosh 720 (1,152 × 870)</td>
<td>68.68</td>
<td>75.06</td>
</tr>
</tbody>
</table>

Note: Signals other than above may not be displayed properly.

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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”? (p. 20)
- Is the mains lead plugged into the socket outlet? (p. 20)
- Is the TV turned On? (p. 20)
- Check Picture Menu (p. 20) and volume.

### An error message appears

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

### Contrast is reduced

- Contrast is lowered when the following conditions without any user operation for a few minutes:
  - no signal in DVB or AV mode
  - selected invalid channel
  - selected radio channel
  - displayed menu

### Permanently lit spots on screen

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

### Chaotic image, noisy

- Set “P-NR” in the Picture Menu (to remove noise). (p. 20)
- Check nearby electrical products (car, motorcycle, fluorescent lamp).

### No image can be displayed

- Is “Colour” or “Contrast” in the Picture Menu set to the minimum? (p. 20)

### Blurry or distorted image

- Reset channels. (p. 24)
- Turn off the TV with Mains power On / Off switch, then turn it on again.

### Unusual image is displayed

- Turn Off the TV with Mains power On / Off switch, then turn it on again.
- Check the “HDMI Input” setting in the Sound Menu. (p. 20)
- If digital sound connection has a problem, select analogue sound connection. (p. 29)

### No sound is produced

- Is “Sound mute” active? (p. 7)
- Is the volume set to the minimum?
- Is “Sound mute” active? (p. 7)
- Is the volume set to the minimum?
- Reset channels. (p. 24)

### Sound level is low or sound is distorted

- Sound signal reception may be deteriorated.
- Sound signal reception may be deteriorated.

### Sound is unusual

- Set the sound setting of the connected equipment to “2ch L.PCM”.
- Check the “HDMI Input” setting in the Sound Menu. (p. 20)
- If digital sound connection has a problem, select analogue sound connection. (p. 29)

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

- If digital sound connection has a problem, select analogue sound connection. (p. 29)
- Check the “HDMI Input” setting in the Sound Menu. (p. 20)
- Turn Off the TV and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 36)
- Use an equipment compliant with EIA/CEA-861/861B.
**FAQs**

### DVB

- **Aerial connection when using DTV and VCR / DVD Recorder**
  - Check to ensure your area is covered by DVB transmissions.
  - Check the aerial and antenna cable are designed for DVB.
  - 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.

- **After DVB Auto Tuning only some or no DVB channels are found**
  - Check “Signal Display”.
  - If “Signal Quality” or “Signal Strength” are displayed in red or constantly changing, check aerial.
  - If problem persists consult your local TV aerial installer.

- **Picture regularly breaks up on some channels, or “No Signal” message**
  - Check “Signal Display”.
  - If “Signal Quality” or “Signal Strength” are displayed in red or constantly changing, check aerial.
  - If problem persists consult your local TV aerial installer.

- **Picture very infrequently breaks up on some or all channels**
  - 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 inadvertently used electrical appliance, or a passing vehicle or lawn mower with a “nasty” ignition system.

- **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 broadcast channels.

- **The channel cannot be changed**
  - Is the TV in Teletext mode?

- **The channel cannot be selected**
  - Is the channel locked?

- **TV goes into “Standby mode”**
  - Off Timer function is activated.
  - The TV enters “Standby mode” about 30 min. after broadcasting ends.

- **The remote control does not work**
  - Are the batteries installed correctly?
  - Has the TV been switched On?

### Other

- **Problem**
  - *Digital TV reception technology requires high quality, robust DTV signals which in some domestic aerial installations, may be relatively poor despite good analogue reception.*

- **Actions**
  - *Maintain optimum signal quality from TV aerial, use a TV aerial splitter (as illustrated) when connecting two or more equipments to the same aerial.*

### Specifications

**Power Source**
- AC 220-240 V, 50 / 60 Hz
- Average use: 350 W
- Standby condition: 0.7 W
- Aspect Ratio: 16:9
- Visible screen size: 922 mm (W) × 518 mm (H)
- Number of pixels: 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]
- Average power consumption: 350 W
- Average power consumption: 106 cm (diagonal)
- Visible screen size: 922 mm (W) × 518 mm (H)
- Number of pixels: 786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]
- Average power consumption: 20 W (10 W + 10 W), 10% THD
- Audio Output: PAL B/G
- Operating Temperature: 0 °C - 35 °C
- Humidity: 20% - 80% RH (non-condensing)

**Audio Input**
- **AV1 Input**
  - AUDIO L - R: RCA PIN Type × 2
  - VIDEO: RCA PIN Type × 1
  - AUDIO L - R: RCA PIN Type × 2
  - VIDEO: RCA PIN Type × 1
  - COMPONENT: RCA PIN Type × 1
- **AV2 Input**
  - AUDIO L - R: RCA PIN Type × 2
  - VIDEO: RCA PIN Type × 1
  - COMPONENT: RCA PIN Type × 1
- **AV3 Input**
  - AUDIO L - R: RCA PIN Type × 2
  - VIDEO: RCA PIN Type × 1
  - COMPONENT: RCA PIN Type × 1

**Audio Output**
- **HDMI Input**
  - Type A Connector
  - This TV supports “HDAVI Control 2” function.
- **PC Input**
  - HIGH-DENSITY D-SUB 15PIN
  - R, G, B: 0.7 V[p-p] (75 Ω)
  - HD: VDD/L Level 2.0 - 5.0 V[p-p] (high impedance)
- **Others**
  - Audio Input: RCA PIN Type × 2

**Dimensions**
- **W x H x D**
  - 1,020 mm x 705 mm x 320 mm (With Pedestal)
  - 1,020 mm x 705 mm x 95 mm (TV only)

**Mass**
- 29.0 kg Net (With Pedestal)
- 27.9 kg Net (TV only)

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