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) User replaceable Batteries
   (d) Cabinet Parts
   (e) User replaceable batteries
   (f) Thermal Paper, Toner/ink cartridges
   (g) Microwave Oven cook plates
   (h) Kneader mounting shaft unit
   (i) Film Cartridge, Printer Heads
   (j) Picture tube (CRT) based Television Receivers (screen sizes greater than 103 cm)
   (k) Convection/Combination Microwave Ovens
   (l) Telev isers / displays (screen size greater than 103 cm)
   (m) Whiteboard (except portable type)

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 proof of purchase date.
   • Note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.

6. 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 103 cm)
   (b) Convection/Combination Microwave Ovens
   (c) Whiteboard (except portable type)

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on your 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.
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!

Enjoy rich multi-media

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Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
TX-32LXD700A Declaration of Conformity No 4593, 28 February 2007
### Safety Precautions

#### Handling the mains plug and lead

<table>
<thead>
<tr>
<th>Warning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)</td>
</tr>
<tr>
<td>Ensure that the mains plug is easily accessible.</td>
</tr>
<tr>
<td>Do not touch the mains plug with a wet hand. (This may cause electrical shock.)</td>
</tr>
<tr>
<td>Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)</td>
</tr>
<tr>
<td>Do not move the TV with the lead plugged in the socket outlet.</td>
</tr>
<tr>
<td>Do not place a heavy object on the lead or place the lead near a high-temperature object.</td>
</tr>
<tr>
<td>Do not twist the lead, bend it excessively, or stretch it.</td>
</tr>
<tr>
<td>Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.</td>
</tr>
<tr>
<td>Do not use a damaged mains plug or socket outlet.</td>
</tr>
</tbody>
</table>

---

#### Notes

<table>
<thead>
<tr>
<th>Auto power standby function</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Keep the TV away from these equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic equipment</td>
</tr>
<tr>
<td>In particular, do not place video equipment near the TV (electromagnetic interference may distort images / sound).</td>
</tr>
<tr>
<td>Equipment with an infrared sensor</td>
</tr>
<tr>
<td>This TV also emits infrared rays (this may affect operation of other equipment).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transport only in upright position</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Adjust the LCD panel to your desired angle</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Display panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 by 100 times of water. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cabinet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regular care: Wipe the surface clean using a soft dry cloth. Major contamination: Clean the surface using a soft cloth and 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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Caution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use care not to subject the TV’s surfaces to detergent. (A liquid inside the TV could lead to product failure.)</td>
</tr>
<tr>
<td>Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).</td>
</tr>
<tr>
<td>Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mains plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wipe the mains plug with a dry cloth at regular intervals. (Moisture and dust may lead to fire or electrical shock.)</td>
</tr>
</tbody>
</table>

---

#### Maintenance

1. 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 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: Clean the surface using a soft cloth and 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.

   **Caution**

   - Use care not to subject the TV’s 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.

   **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
- Batteries for the Remote Control Transmitter (2)
- Operating Instructions
- Guarantee

**Identifying Controls**

1. **Mains power On / Off switch**
2. **SD CARD slot**
3. **Remote control signal receiver**
4. **C.A.T.S. (Contrast Automatic Tracking System) sensor**
5. **Power LED**
6. **Function select**
7. **Volume / Contrast / Brightness / Colour / Sharpness / Tint (NTSC mode) / Bass / Treble / Balance / Auto Tuning (p. 24)**

### Installing remote's batteries

1. Pull open
2. Hook
3. Close

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

**Optional accessories**
- Wall-hanging bracket
- TY-WK32LR2W

**WARNING!**
- Failure to use a Panasonic bracket or choosing to mount the unit yourself will be done at the risk of the consumer.
- Always be sure to ask a qualified technician to carry out set-up.
- Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.

---

**How to remove the TV Stand**

Remove four screws.

**Note the correct polarity (+ or -)**

---

**How to remove the TV Stand**

Remove four screws.

---

**Quick Start Guide**

TV VOL CH F TV AV OPTION ASPECT POWER SD CARD EXIT GUIDE RECPOWER INFO MUTE CH VOL STTL GRY B

---

**Optional accessories**
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  - TY-WK32LR2W

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- Always be sure to ask a qualified technician to carry out set-up.
- Incorrect fitting may cause equipment to fall, resulting in injury and product damage.
- Do not mount the unit directly below ceiling lights (such as spotlights, floodlights or halogen lights) which typically give off high heat. Doing so may warp or damage plastic cabinet parts.
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.

Example 1 Connecting aerial

TV only

Example 2 Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR

Note

- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75 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

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.

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

How to use remote control

- Open the main menu

ON SCREEN HELP Instructions box

(example: Sound 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 operation guide will help you.
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 top panel of the TV.

3 Select a service
To select the two or three-digit programme number, e.g. 39 (in a short time)
Select a service using Information banner
① select service
② watch
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)

- Freeze / unfreeze picture
- 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.
- Check or change the current programme status instantly
  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
Programme
DVB: Programme Start/Finish time
Analogue: Programme Status
Rating information
Sound mute
Stereo sound
Weak TV signal
Teletext
Off timer
Features available

Display information banner
Information of another channel
Information on next programme
To watch the programme listed in the banner
Information banner operation
1st press
Display banner
2nd press
Banner + programme synopsis (DVB)
3rd press
Exit

Change the aspect ratio (p. 36)
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.

View in multi window (p. 38)
Enjoy viewing two images at once, such as a TV programme and a DVD.

Watch TV, DVD, etc. in multi window
Operations in multi window
To exit multi window (return to the single-screen view with main screen)
To change the layout, images, first show the colour bar
To change the input mode or position of sub screen
Swap sub screen
for main screen
by the remote control (p. 10 or p. 14)

Change the input mode or position
Remote control operations apply to the main screen.

Picture-in-Picture mode (PIP)
Picture-and-Picture mode (PAP)
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

- **View details of the programme (DVB mode)**
- **Watch the programme**

- **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.

- **Other useful functions (Operate after viewing TV Guide)**

- **View details**
- **Select the programme on the air**

- **To return to TV**

- **To previous day (DVB mode)**

- **To next day (DVB mode)**

- **To view a programme list of the selected type (DVB mode)**

- **To view a programme list of the selected favourites list**

- **To list favourite services (p. 23)**

- **Only analogue TV services are listed**

- **View TV Guide**
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 top 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.

<table>
<thead>
<tr>
<th>VCR / DVD switch*</th>
<th>VCR / DVD switch*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER</th>
<th>Standby</th>
</tr>
</thead>
<tbody>
<tr>
<td>Set to Standby mode / Turn on</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Play</th>
<th>Playback videocassette / DVD</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Stop</th>
<th>Stop the operations</th>
</tr>
</thead>
</table>

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 / Restart DVD: Press and hold to play at slow speed

Programme Up / Down

Select programme

Record

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

Enter the appropriate code for the equipment to be controlled, see table below

<table>
<thead>
<tr>
<th>“VCR” position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
</tr>
<tr>
<td>VCR</td>
</tr>
<tr>
<td>DVD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“DVD” position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
</tr>
<tr>
<td>VCR</td>
</tr>
<tr>
<td>DVD</td>
</tr>
<tr>
<td>Player home theatre</td>
</tr>
</tbody>
</table>

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.

Tips

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

To return to TV

1. To return to TV
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

Available page up / down
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. 17)

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

Switch to Teletext
Displays Index (content varies depending on the broadcasters)

Select the page

■ To adjust contrast ➔ R ➔ G ➔ Y ➔ B (Corresponds to the colour bar)
■ To return to TV ➔

Using teletext conveniently

■ Reveal hidden data e.g. quiz page answers
■ Re-hide

Reveal hidden words

FULL / TOP / BOTTOM

■ 1 ➔ P100 ➔ Broadcast ➔ TOP (Expand the TOP half)
■ 2 ➔ (BOTTOM) ➔ Normal (FULL)

Viewing Teletext

If you wish to hold the current page without updating
Stop or resume automatic updating

HOLD

■ To resume ➔ HOLD

INDEX

Return to the main index page

INDEX INDEX

■ Call up a favourite pages

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

Watch TV and Teletext in two windows at once

MULT / RP
- Operations can be made only in Teletext screen.

View in multi window

Store 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

Enter new page number ➔ press and hold

View sub page

(Only when teletext is more than one page)

Enter the 4-digit number example: P6

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.

■ To view specific sub page

View sub page

■ To 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”).

View the TV picture while waiting for update

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

Changes to TV screen temporarily

(MENU ➔ Y ➔ Press when updating is completed ➔ Y ➔ View the updated page)
How to Use Menu Functions

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

Display the menu

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

Select the menu

(a) access

Select the item

(b) select

Adjust or select

(c) change

Number and positions of alternatives

Choose from among alternatives

Store or access (Required by some functions)

Adjust using the slide bar

Go to the next screen

Displays the next screen

To change menu pages

To return to TV at any time

EXIT

To return to the previous screen

RETURN

Note

To initialize all settings

"Shipping Condition" (p. 26)
### Menu list

<table>
<thead>
<tr>
<th>Menu</th>
<th>Item</th>
<th>Adjustments / Configurations (alternatives)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>VIERA Link</strong></td>
<td><strong>VIERA Link Control</strong></td>
<td>Controls the connected Panasonic equipment</td>
</tr>
</tbody>
</table>
| | | *Easy control only with VIERA remote control* (p. 33)
| | | *You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.* |
| **Speaker Selection** | | |
| **Viewing Mode** | **Basic Picture Mode** | (Dynamic / Normal / Cinema / Auto) Set for each input signal |
| | **Contrast, Brightness, Colour, Sharpness** | Adjusts colour, brightness, etc. for each picture mode to suit your taste |
| | **Tint** | Adjust tint of image for NTSC signal reception only |
| | **Colour Balance** | Chooses the colour balance of the entire image (Cool / Normal / Warm) |
| | **Colour Management** | Automatically adjusts colours to suit your taste (Off / On) |
| | | *Not valid on PC signal* |
| | **P-NR** | Picture Noise Reduction for unwanted picture noise (Off / Normal / Dynamic / Auto) |
| | **MPEG NR** | Automatically reduces noise for watching DTV, DVD and VCD (Off / Min / Mid / Max) |
| | **3D-COMB** | Automatically makes still pictures and slow pictures look more vivid (Off / On) |
| | | *Not valid on NTSC signal reception only* |
| | **Reset Picture Defaults** | Press the OK button to reset the present Picture Mode to the default settings |
| **Sound** | **Mode** | Basic sound mode (Music / Speech) |
| | **Bass** | Adjusts the output level of deep bass |
| | **Treble** | Adjusts the output level of high-pitch, shrill sound |
| | **Balance** | Adjusts volume level of right and left speakers |
| | **Headphone Volume** | Adjusts the volume of the headphones |
| | **Surround** | Surround sound settings (Off / Simulated Surround / SRS TruSurround XT) Switching is also possible by the Surround button on the remote control (p. 7) |
| | | (Simulated Surround: Provides a dynamic enhancer to simulate improved spatial effects SRS TruSurround XT: SRS TruSurround XT® creates a high quality surround sound effect using just two speakers from the source which can output surround encoded signals) |
| | **Volume Correction** | Adjusts volume of individual channel or input mode |
| | **DVB Audio Preference** | Selects the initial setting for Audio tracks (Dolby Digital / MPEG) If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select Dolby Digital: 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. |
| | | *DVB 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. |
| | **MPEG Audio Level** | Normally, MPEG sound is larger than Dolby Digital one You can adjust the audio level of MPEG as the initial setting Normal: to -12dB in -2dB reductions Auto: to -12dB in -2dB reductions |
| | **HDMI1 Input** | Select to fit the input signal (Auto / Digital / Anologue) (p. 29) Auto: Automatic detection of digital or analogue sound source Digital: HDMI cable connection Anologue: HDMI-DVI adapter cable connection HDMI input mode only HDMI2 terminal is for digital signal only No setting for HDMI2 available |
| | **Reset Sound Defaults** | Press the OK button to reset the present Sound Mode to the default settings |
| **Setup** | **Reset Picture Defaults** | Press the OK button to reset the present Picture Mode to the default settings |
| | **System Update** | Downloads new software to TV (p. 23) |
| | **Input Labels** | Labels or skips each input terminals (p. 27) |
| | **Banner Display Timeout** | Sets how long the information banner (p. 11) stays on screen (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) |
| | **Regional** | Selects time zone (NSW/ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania) (p. 23) |
| | **Region Select** | Selects the region where you live to adjust the standard time for Summer Time (Auto / Off / +1/2 Hr / +1 Hr) (p. 23) |
| | **Power on Link** | Set to “Off” to use Power on Link function (No / Set) (p. 33) |
| | **Power off Link** | Set to “Set” to use Power off Link function (No / Set) (p. 33) |
| | **Banner Display** | Sets to use VIERA Link functions (Off / On) (p. 32) |
| | **System Information** | Displays the software licence information |
| | | Displays the software licence information |
| | **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. 23) |
| | **Region Select** | Selects the region where you live to adjust the standard time for Summer Time (Auto / Off / +1/2 Hr / +1 Hr) (p. 23) |
| | **Display** | Displays the system information of this TV |
| | **Software Licence** | Displays the software licence information |

### Adjustments / Configurations (alternatives)

<table>
<thead>
<tr>
<th>Menu</th>
<th>Item</th>
<th>Adjustments / Configurations (alternatives)</th>
</tr>
</thead>
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<tr>
<td><strong>DVB Favourites Edit</strong></td>
<td></td>
<td>Creates list of favourite programmes (p. 23)</td>
</tr>
<tr>
<td><strong>Auto Tuning</strong></td>
<td></td>
<td>Automatically sets the channels received in the area (p. 24)</td>
</tr>
<tr>
<td><strong>Analogue Programme Edit</strong></td>
<td></td>
<td>Edits analogue channels (p. 25)</td>
</tr>
<tr>
<td><strong>DVB Manual Tuning</strong></td>
<td></td>
<td>Sets the DVB channels manually (p. 25)</td>
</tr>
<tr>
<td><strong>Analogue Manual Tuning</strong></td>
<td></td>
<td>Sets the analogue channels manually (p. 25)</td>
</tr>
<tr>
<td><strong>Add New DVB Services</strong></td>
<td></td>
<td>Adds new DVB services (p. 25)</td>
</tr>
<tr>
<td><strong>New Service Message</strong></td>
<td></td>
<td>Selects whether to give a notification message when a new DVB service is found (p. 25)</td>
</tr>
<tr>
<td><strong>DVB Signal Display</strong></td>
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<td>Checks the DVB signal condition (p. 25)</td>
</tr>
<tr>
<td><strong>Off Timer</strong></td>
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</tr>
<tr>
<td><strong>Teletext</strong></td>
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</tr>
<tr>
<td><strong>Region Select</strong></td>
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<td>Selects the region where you live to adjust the standard time for Summer Time (Auto / Off / +1/2 Hr / +1 Hr) (p. 23)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Set to “Auto” normally</td>
</tr>
<tr>
<td><strong>Daylight Saving Time</strong></td>
<td></td>
<td>Selects the region where you live to adjust the standard time (NSW/ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania) (p. 23)</td>
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<td></td>
<td>A different menu will be displayed while PC or DVI to HDMI adapter cable is used. (p. 28 and p. 29)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Only available items can be selected.</td>
</tr>
</tbody>
</table>
DVB Settings (DVB mode)

DVB Settings provide access to various advanced features.

1. If in Analogue mode, Select DVB
2. Display the menu
   - Press MENU
3. Select “Setup”
   - Press VIERA Main Menu
     - VIERA Link
     - Picture
     - Sound
     - Setup
4. Select “DVB Favourites Edit”, “System Update”, “Region Select” or “Daylight Saving Time”
5. Set

To return to TV

Note
- Channel numbers cannot be changed, due to broadcast restrictions.

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.

Select a service and add it to the list

- To add all services to the list

To edit List

- Select the field of List to edit and:
  - To name the List
  - To move the service
  - To delete the service

To display another List

Download new software to TV.
- For details (p. 37)

System Update

Update TV’s software system

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.
- For details (p. 37)

Update TV’s software system

Select “System Update Search Now” and searches for an update (for several min.) and displays a corresponding message if any software updates are available.

Download may take for about 20 min.

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

Daylight Saving Time

Select 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.

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Adjust for Summer 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.

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

Download new software to TV.
- For details (p. 37)

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.

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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"
- Select a function
  - To access
  - To select

Select "Tuning Menu"
- Select a function
  - To access
  - To select

Select a function
- To access
- To select

Set DVB channel manually

Set Analogue channel manually
- Automatically set the DVB and Analogue channels received in the area.
- 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 top of the TV
- Press repeatedly until "Auto Tuning" appears ➔
- Access "Auto Tuning" ➔ TV
- Start "Auto Tuning" ➔

To return to TV ➔ EXIT

Edit the analogue programme position settings
- Select the channel to edit

Edit
- To delete ➔ After confirming, press ➔
- To add ➔ After confirming, press ➔
- To move ➔ ➔ Select new position ➔
- To skip the channel ➔ This function is only effective when pressing the Programme Up / Down button on the TV or the remote control.

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

Add DVB channel automatically
- Any new services found will be added automatically.

Display a notification message
- New DVB service found! Press OK to add new service. Press EXIT to ignore.

Check DVB signal
- 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)

Access 69
Enter the “User MHz
Select the
To change channel number
Edit the analogue programme position settings
"Analogue Manual Tuning"
Select the channel to edit
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”
- Select the channel to edit
- Select “Tuning Menu”
- Select a function
  - To access
  - To select

Select a function
- To access
- To select

Set DVB channel manually

Set Analogue channel manually
- Automatically set the DVB and Analogue channels received in the area.
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  - If tuning has not done completely “DVB Manual Tuning", "Analogue Manual Tuning"

For Auto Tuning, using the buttons on the top of the TV
- Press repeatedly until “Auto Tuning” appears ➔
- Access “Auto Tuning” ➔ TV
- Start “Auto Tuning” ➔

To return to TV ➔ EXIT

Edit the analogue programme position settings
- Select the channel to edit

Edit
- To delete ➔ After confirming, press ➔
- To add ➔ After confirming, press ➔
- To move ➔ ➔ Select new position ➔
- To skip the channel ➔ This function is only effective when pressing the Programme Up / Down button on the TV or the remote control.

Set Analogue channel manually after Auto Tuning.
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Add DVB channel automatically
- Any new services found will be added automatically.

Display a notification message
- New DVB service found! Press OK to add new service. Press EXIT to ignore.

Check DVB signal
- 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”
   - TV
   - Return
3. Select “Shipping Condition”
   - TV
   - Return
4. Set

Check the message and initialise

Shipping Condition
Analog & 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”
   - TV
   - Return
3. Select “Input Labels”
   - TV
   - Return
4. Select a input terminal and set
   - TV
   - Return

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. 34)

Select the external input

Select “PC”

PC menu setting (changed as desired)

To make settings “How to Use Menu Functions” to (p. 18)

Menu Item Adjustments / Configurations (options)

**Picture**

- **Advanced**
  - R-Gain Adjusts the white balance for red areas
  - G-Gain Adjusts the white balance for green areas
  - B-Gain Adjusts the white balance for blue areas
  - Gamma (2.0 / 2.2 / 2.5)
- 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
- V-pos Adjusts vertical position
- Clock Phase Eliminates flicker and distortion
- 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

Other items p. 20 and p. 21

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. 34).

**Note**

- HDMI is the world’s first complete digital consumer AV interface complying with a non-compression standard.
- Audio settings can be made on the “HDMI1 Input” menu screen. (p. 20)
- 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 assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to “16:9”.
- These HDMI connectors are “type A”.
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either “Component”, “S-VIDEO”, or “Video” to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 39.

**DVI connection**

If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (+2). When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use 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” to (p. 18)

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 settings

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.

1 To return to TV

2 ➤ TV

• Corresponding signals (p. 39)
• If “H-freq.” or “V-freq.” is shown in red, the signals may not be supported.
Viewing from card (Photos)

The still images recorded by the digital camera will be displayed.

1. Insert the SD Card

2. Enter SD mode (Photo View Mode)

3. Select the photo to be viewed

4. View

- To return to thumbnail screen
- To return to TV

Slide show

Start Slide show (operate in step 3 or 4)
1. Select the photo for the first view
2. Start Slide show

Slide show settings (operate in step 3 or 4)
1. Display the menu
2. Select "Viewing Setup"
3. Select the functions and set

Viewing Setup

Interval
Select slide show interval (5 / 10 / 15 / 30 / 60 / 90 / 120 seconds)

Repeat
Slide show repeat (Off / On)

On screen messages

Is SD Card in?
- Insert a SD card.

No valid file to play
- The card has no data.

Cannot read file
- The file is broken or unreadable.
  (For the applicable formats and data, see p. 38.)

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.)
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. 33)
- Power on Link (p. 33)
- Power off Link (p. 33)
- Speaker control (p. 33)
- Easy control only with VIERA remote control (p. 33)

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**
  Setup the equipment to enable this function. Read the manuals of the equipment.
  About connections, see “External Equipment” (p. 34). 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 HDMI1 or HDMI2 (p. 14), and make sure that an image is displayed correctly.

---

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy playback</td>
<td>You can control some functions of the connected Panasonic equipment with this TV remote control (point the remote control at the TV’s signal receiver). If you cannot access the menu, check the settings and the equipment (p. 32).</td>
</tr>
<tr>
<td>Power on/off Link</td>
<td>When the connected equipment starts playback or direct navigator / function menu for the equipment is activated, the TV is automatically turned on. (Only when TV is in Standby mode.)</td>
</tr>
<tr>
<td>Speaker control</td>
<td>You can control the theatre speaker with TV’s remote control. This function is available when Panasonic Amplifier or Player theatre is connected.</td>
</tr>
</tbody>
</table>

---

**Easy control only with VIERA remote control**

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

2. **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.

3. **Speaker control**
   - You can control the theatre speaker with TV’s remote control. This function is available when Panasonic Amplifier or Player theatre is connected.
   - If you cannot access the menu, check the settings and the equipment (p. 32).

   - Display “VIERA Link Menu”
   - Select “Speaker Selection”
   - Set to “Home Cinema” or “TV”

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

   - Display “VIERA Link Menu”
   - Select “Speaker Selection”
   - Set to “Home Cinema” or “TV”

   - The TV remains on even if the “VIERA Link” compatible equipment is turned off.

---

**Technology and Trademarks**

- HDAVI Control™
- HDMI™
- VIERA Link

- For more information about Panasonic’s “HDAVI Control” function, see “External Equipment” (p. 34). Read the manuals of the equipment too.

- About the operations for the equipment, read the manual of the equipment.

- Use the TV remote control to control the connected equipment.

- Easy control only with VIERA remote control

- When you change the input mode, registration of the connected equipment may be deleted. Enter settings again (p. 32).

- This function works with products that support “HDAVI Control” / “VIERA Link”.

- This function works with products that support “HDAVI Control 2” / “VIERA Link”. Connection of some Panasonic equipment allows automatic connection (VIERA Link “Power on Link”). Connections to some Panasonic equipment allow automatic connection (VIERA Link). Details are mentioned in the separate manuals of the equipment.

- The sound of TV speakers is mute.

- TV speakers are active.

- Optional cables, accessories and optional equipment other than those specified may not operate properly or cause interference.

- The sound of TV speakers is muted.

- When the equipment is turned off, TV speakers will be active.

- The TV remains on even if the “VIERA Link” compatible equipment is turned off.

---

**About the HDMI CEC function**

- **Preparations** Setup the equipment to enable this function. Read the manuals of the equipment.

- **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 HDMI1 or HDMI2 (p. 14), and make sure that an image is displayed correctly.

---

**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.

- **Power on/off Link**

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

   - Display “VIERA Link Menu”
   - Select “Speaker Selection”
   - Set to “Home Cinema” or “TV”

   - The TV remains on even if the “VIERA Link” compatible equipment is turned off.

---

**Speaker control**

- You can control the theatre speaker with TV’s remote control. This function is available when Panasonic Amplifier or Player theatre is connected.

- If you cannot access the menu, check the settings and the equipment (p. 32).

   - Display “VIERA Link Menu”
   - Select “Speaker Selection”
   - Set to “Home Cinema” or “TV”

---

**Power on/off Link**

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

- Display “VIERA Link Menu”
- Select “Speaker Selection”
- Set to “Home Cinema” or “TV”

- The TV remains on even if the “VIERA Link” compatible equipment is turned off.
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. 43).

**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>AV4 IN (Side of TV)</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>
<td></td>
</tr>
<tr>
<td>To record / playback videocassettes / DVDs (VCR / DVD recorder)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>To watch DVDs (DVD player)</td>
<td></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>
<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>
<td></td>
</tr>
<tr>
<td>To play games (Game equipment)</td>
<td></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>
<td></td>
</tr>
<tr>
<td>VIERA Link</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Recommended Connection

**External Equipment**

- Audio 1 IN
- Audio 1 OUT
- Audio 2 IN
- Audio 2 OUT
- Audio 3 IN
- Audio 3 OUT
- Audio 4 IN
- Audio 4 OUT
- HDMI IN
- HDMI OUT
- 12 AV IN
- S VIDEO 4 pin terminal
- Chrominance in
- Chrominance earth
- Luminance in
- Luminance earth
- Hot Plug Detect
- DDC/CEC Ground
- TMDS Clock Shield
- TMDS Data0
- TMDS Data0+
- TMDS Data1
- TMDS Data1+
- TMDS Data2
- TMDS Data2+
- +5V Power
- SDAReserved (in cable but N.C on device)
- TMDS Clock
- TMDS Clock+
- TMDS Data1 Shield
- TMDS Data1+
- TMDS Data2 Shield
- TMDS Data2+

**To watch satellite broadcasts**

Set top box

- Fully wired HDMI compliant cable

**To watch DVDs**

DVD player

- Optical digital audio cable
- Conversion adapter (if necessary)

**To listen with speakers**

Amplifier with speaker system

**To record / playback**

DVD Recorder / VCR

- RF cable

**VIERA Link**

(p. 32)

- 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 Amplifier
- Panasonic Player theatre
- Speaker system

- Panasonic DVD Recorder, HD Video Camera, etc.
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>S 5</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>

Updating the software system

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

- To download new software, press “OK”. Downloading (approx. 20 min.)
- If you choose not to download, press “EXIT”.

To update automatically

Set “Auto Update Search in Standby” to “On” (p. 23)

- The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every night under the following conditions.
  - Standby (TV turned Off with the remote control)
  - Recording is not in progress.

To update manually

- Perform “System Update Search Now” (p. 23)
- To download new software, press “OK”. Downloading (approx. 20 min.)
- If you choose not to download, press “EXIT”.

Note

- During downloading, do not turn Off the TV or touch any button.
  (The TV is automatically activated after downloading is completed.)

VIERA Link “HDAVI Control”™

HDMI connections to some Panasonic equipment allow you to interface them automatically. (p. 32)

- This function may not work normally depending on the equipment condition.
- 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)

Stereo / Bilingual Sound Selection (Analogue mode)

Audio Signal

<table>
<thead>
<tr>
<th>STEREO</th>
<th>MAIN</th>
<th>SUB</th>
<th>MONO</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Mode Indicator

NICAM

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

Type of broadcast

<table>
<thead>
<tr>
<th>Regular broadcast (Standard Audio)</th>
<th>Regular + NICAM MONO</th>
<th>NICAM STEREO</th>
<th>NICAM DUAL MONO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode Indicator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Indicator</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A2(Germany)

- Used in Australia, Malaysia etc.

Type of broadcast

<table>
<thead>
<tr>
<th>Regular broadcast (Standard Audio)</th>
<th>BILINGUAL or DUAL MONO: MAIN / SUB</th>
<th>STEREO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode Indicator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>No Indicator</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.
Multi Window

You can watch two images at once. (p. 11)

- The same input mode cannot be displayed at once.
- The sound is active for main screen only in multi window.
- Multi window cannot be used with PC, SD card or HDMI (available for main screen only).
- Some signals are reformatted for suitable viewing on your display.
- The display timeout for the input mode or programme position can be adjusted by "Banner Display Timeout" in Setup Menu (p. 21).

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 x 120 to 10,000,000

- 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): Uniform standard established by Japan Electronics and Information Technology Industries Association (JEITA).

Note

- A JPEG image 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.
- Only *.JPG extension can be read by this TV.
- 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 file or folder names are changed.

Input signal that can be displayed

<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 (60 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>1,080i (60 Hz)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,080p (50 Hz)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,080p (60 Hz)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,280 × 768 @60 Hz</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,366 × 768 @60 Hz</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1,366 × 768 @75 Hz</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Macintosh 13” (640 × 480)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Macintosh 16” (832 × 624)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Macintosh 21” (1,152 × 870)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

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.
**Frequently Asked Questions (FAQs)**

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem 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. 6]
- 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.

### Problem

<table>
<thead>
<tr>
<th>Problem</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chaotic image, noisy</td>
<td>Set “P-NR” in the Picture Menu (to remove noise). [p. 20]</td>
</tr>
<tr>
<td>No image can be displayed</td>
<td>Is “Colour” or “Contrast” in the Picture Menu set to the minimum? [p. 20]</td>
</tr>
<tr>
<td>Blurry or distorted image (no sound or low volume)</td>
<td>Reset channels. [p. 24]</td>
</tr>
<tr>
<td>Unusual image is displayed</td>
<td>Turn off the TV with Mains power On / Off switch, then turn it on again.</td>
</tr>
<tr>
<td>No sound is produced</td>
<td>Is “Sound mute” active? [p. 7]</td>
</tr>
<tr>
<td>Sound level is low or sound is distorted</td>
<td>Is the volume set to the minimum?</td>
</tr>
<tr>
<td>Sound is unusual</td>
<td>Set the sound setting of the connected equipment to “2ch L.PCM.”</td>
</tr>
<tr>
<td>Pictures from external equipment are unusual when the equipment is connected via HDMI</td>
<td>is the HDMI cable connected properly? [p. 34]</td>
</tr>
</tbody>
</table>

### DVB

#### 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.

#### After DVB Auto Tuning only some or no DVB channels are found
- Check to ensure your area is covered by DVB transmissions. (www.dba.org.au/)
- Check that the aerial and antenna cable are designed for DVB.

#### Picture regularly breaks up on some or all channels
- Electrical atmospheric interference caused by local or distant lightning storms or heavy rain with wind in “leafy” locations may cause pictures to break up and audio to mute or distort momentarily.

#### 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 channel locked? [p. 25]

#### The channel cannot be selected
- Is the channel locked? [p. 25]

#### 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? [p. 6]
- Has the TV been switched On?

### Picture very infrequently breaks up on some or all channels
- 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 fly lead between TV and antenna wall socket to minimise impulse noise pickup.

### Sound level is low or sound is distorted
- Sound signal reception may be deteriorated.

### 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? [p. 6]
- Has the TV been switched On?

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

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

**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. 6]
- 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.
### Specifications

<table>
<thead>
<tr>
<th>Power Source</th>
<th>AC 220-240 V, 50 / 60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Consumption (average)</td>
<td>138 W</td>
</tr>
<tr>
<td>Standby condition</td>
<td>0.4 W</td>
</tr>
</tbody>
</table>

#### Aspect Ratio
- 16:9

#### Visible screen size
- 80 cm (diagonal)
- 697 mm (W) × 392 mm (H)

#### Number of pixels
- 80 cm (diagonal)
- 697 mm (W) × 392 mm (H)

#### Sound
- Speaker: Woofer (120 mm × 60 mm) × 2 pcs, Tweeter (23 mm × 100 mm) × 2 pcs
- Audio Output: 20 W (2.5 W + 7.5 W, 2.5 W + 7.5 W)
- Headphones: M3 (3.5 mm) stereo mini jack × 1

#### Display panel
- Aspect Ratio: 16:9
- Visible screen size: 80 cm (diagonal)
- Number of pixels: 1,049,088 (1,366 (W) × 768 (H))

#### Display
- Panel: Aspect Ratio 16:9
- Visible screen size: 80 cm (diagonal)
- Number of pixels: 1,049,088 (1,366 (W) × 768 (H))

#### PC signals
- VGA, SVGA, XGA
- Horizontal scanning frequency: 31 - 69 kHz
- Vertical scanning frequency: 59 - 86 Hz

#### Receiving Systems / Band name
- PAL B/G: Reception of off-air broadcasts
- DVB-T: 7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception
- PAL 60 Hz: Playback of NTSC tape from some PAL Video recorders (VCR)
- M.NTSC: Playback from M. NTSC Video recorders (VCR)
- NTSC: Playback from NTSC Video recorders (VCR)

#### Aerial - Rear
- Standard Belling & Lee connector

#### Operating Conditions
- Temperature: 0 °C - 35 °C
- Humidity: 20 % - 80 % RH (non-condensing)

#### Connection terminals

<table>
<thead>
<tr>
<th>Component</th>
<th>Type</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV1 Input</td>
<td>RCA</td>
<td>RCA Pin Type × 2 + 2 × 2</td>
</tr>
<tr>
<td>VIDEO</td>
<td>RCA</td>
<td>Pin Type × 1</td>
</tr>
<tr>
<td>S VIDEO</td>
<td>Mini</td>
<td>DIN 4-pin</td>
</tr>
<tr>
<td>AUDIO L - R</td>
<td>RCA</td>
<td>Pin Type × 2</td>
</tr>
<tr>
<td>VIDEO</td>
<td>RCA</td>
<td>Pin Type × 1</td>
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<td>COMPONENT Y</td>
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</tr>
<tr>
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<td>(including synchronization)</td>
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<tr>
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<td>DIN 4-pin</td>
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<tr>
<td>VIDEO</td>
<td>RCA</td>
<td>Pin Type × 1</td>
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<tr>
<td>COMPONENT Y</td>
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<td>(including synchronization)</td>
</tr>
<tr>
<td>COMPONENT Y</td>
<td>Y</td>
<td>(including synchronization)</td>
</tr>
<tr>
<td>HDMI / 2 Input</td>
<td>RCA</td>
<td>Pin Type × 2 + 2 × 2</td>
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<tr>
<td>PC Input</td>
<td>RCA</td>
<td>Pin Type × 1</td>
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<tr>
<td>HDMI / 2 Input</td>
<td>OTHER</td>
<td>Type A Connectors</td>
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<tr>
<td>DIGITAL AUDIO OUT</td>
<td>RCA</td>
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<tr>
<td>Card slot</td>
<td>SD</td>
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<td>Dimensions</td>
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<td>Width × Height × Depth</td>
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#### Dimensions (W × H × D)
- 836 mm × 592 mm × 248 mm (With TV Stand)
- 836 mm × 540 mm × 107 mm (TV only)

#### Mass
- 18.0 kg

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**Note**
- Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.