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: TX-26LXD8A
Serial Number: TQB0A0225

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

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Contents
Safety Precautions

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.
- Do not touch the mains plug with a wet hand. (This may cause 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 pull on the lead. Hold onto the mains plug body when disconnecting the lead.
- Do not use a damaged mains plug or socket outlet.

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

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

Warning

Important Installation Notices

Install TV on a stable surface
If a television is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
• Ensure that furniture is designed and constructed to prevent it from toppling.
• Only using furniture that can safely support the television.
• Ensuring the television is not overhanging the edge of the supporting furniture.
• Not placing the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
• Not allowing children to climb on furniture to reach the television or its controls.

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

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

Transport only in upright position

Allow sufficient space around the TV for radiated heat
Minimum distance

Do not block the rear air vents
• Blocked ventilation by newspapers, table cloths, curtains, etc. may cause overheating, fire or electrical shock.

Do not expose your ears to excessive volume from the headphones
• Irreversible damage can be caused.

Auto power standby function
• If no signal is received and no operation is performed in Analogue TV mode for 30 minutes, the TV will automatically go to standby mode.

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

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

Do not expose to direct sunlight and other sources of heat
• Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

Do not place foreign objects inside the TV
• Do not 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.

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Do not allow children to handle SD card
• As with any small object, SD Cards can be swallowed by young children. Please remove SD Card immediately after use and store out of reach of children.

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).

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Power source
• This TV is designed to operate on 220-240 V, 50 / 60 Hz AC.
Quick Start Guide

Accessories / Options

- Standard accessories
  - Check that you have the accessories and items shown
  - Remote Control Transmitter N2QAYB000228
  - Batteries for the Remote Control Transmitter (2) R6 (AA)
  - Operating Instructions with Warranty statement

- Installing remote’s batteries
  1. Pull open
  2. Hook
  Note the correct polarity (+ or -)

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

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.
- Any damage resulting from not having a professional installer mount your unit will void your warranty.
- 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
- Aerial Rear of the TV
- RF cable Rear of the TV
- AC 220-240 V 50 / 60 Hz

Example 2 Connecting DVD Recorder / VCR
- TV, DVD Recorder or VCR
- If your recorder is not available for DVB p. 44
- Rear of the TV
- Mains lead
- RF cable
- DVD Recorder or VCR
- AC 220-240 V 50 / 60 Hz

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.

How to remove the TV Stand
- Remove four screws
- Rear of the TV

Accessories / Options
Identifying Controls

Function select
- Volume / Contrast / Brightness / Colour / Sharpness / Tint (NTSC mode) / Bass / Treble / Balance / Auto Tuning (p. 26)
- SD Card slot (p. 33)
- Swing door to open
- Remote control signal receiver
- C.A.T.S. (Contrast Automatic Tracking System) sensor

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
2. Select your state
3. Start Auto Tuning
4. Select the picture setting

Plug the TV into mains socket and switch On

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

Select your state

Select State / Territory
- Queensland
- South Australia
- Western Australia

Start Auto Tuning

Please select your viewing environment.

Select State / Territory

Select the picture setting

Please select your viewing environment.

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

How to use remote control

ON SCREEN HELP Instructions box (example: Sound Menu)

Using the On Screen Displays

OPEN MAIN MENU
OPEN SUBTITLE MENU
OPEN VCR/DVD MENU
OPEN RECEPTION MENU
OPEN OPTION MENU
RETURN
EXIT

On-screen operation guide will help you.
**Watching TV**

1. **Turn power on**
   - Mains power On / Off switch should be On. (p. 8)
   - If "Shop" is displayed on the top right of the screen, reset settings in "Shipping Condition" (p. 28), and select "Home" in "Auto Tuning" (p. 9).

2. **Select DVB (Digital Video Broadcasting) or Analogue mode**
   - Also possible to select the mode using the TV button on the front panel of the TV. (p. 8)

3. **Select a programme**
   - To select from the Programme List
   - To select the two or three-digit programme number, e.g. 39 "= 39" (in a short time)
   - If one or two-digit programme number "= 39" quickly changes the programme

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

**Other useful functions**

- **Display Information banner**
  - Possible to confirm the programme name before selecting programmes.
  - Possible to set display timeout in "Banner Display Timeout" (p. 21).
  - Extra information (press again to hide the banner) (DVB mode)

- **Select a programme using Information banner**
  - Possible to confirm the programme name before selecting programmes.
  - Display Information banner if it is not displayed
  - While the banner is displayed, select the programme

- **Select a programme using TV Guide**
  - Possible to confirm the TV Guide (EPG) before selecting programmes.
  - Display TV Guide
  - Select the programme

**Display the selectable settings for the current programme**

- **MPX (Analogue mode)**
  - Sound Menu (p. 20)

- **Volume Correction**
  - Adjusts volume of individual programme or input mode

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

- **MPX (Analogue mode)**
  - Sound Menu (p. 20)

- **Audio Selection (DVB mode)**
  - Allows you to select between alternative language for sound tracks (if available)

**Turn the TV off automatically after a fixed period**

- To set the remaining time: Information banner (above)
- When the remaining time is within 3 minutes, the remaining time will flash on screen.

**Display Information banner**

- Also appears when changing a programme

**Display the selectable settings for the current programme**

- **MPX (Analogue mode)**
  - Sound Menu (p. 20)

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  - Adjusts volume of individual programme or input mode

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Watching TV

Other useful functions

Change the aspect ratio

Enjoy viewing the picture at its optimum size and aspect.

Display Aspect Selection list

While the list is displayed, select the mode

1. select

To change the mode using the ASPECT button only

(Add repeatedly until you reach the desired mode)

- 16:9
  - Directly displays the image at “16:9” without distortion (anamorphic).
- 4:3
  - Displays a “4:3” image full-screen. Stretching is only noticeable at the left and right edges.
- 4:3 Full
  - Displays a “4:3” image enlarged horizontally to fit the screen. Only available in DVB mode or HD signal.
- Zoom2
  - Displays a “16:9” letterbox (anamorphic) image full-screen without distortion.
- Zoom3
  - Displays a “2.35:1” letterbox (anamorphic) image full-screen without distortion. At “16:9”, displays the image at its maximum (with slight enlargement).

Note

- Only “16:9” and “4:3 Full” are available in DVB mode.
- Only “16:9” and “4:3” are available in PC mode.
- Not available in teletext mode.
- Aspect mode can be memorized separately for SD (Standard definition) and HD (High definition) signals. (except DVB mode)

Using TV Guide

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

Analogue programmes will be listed after DVB programmes. “D” means DVB programme and “A” means Analogue programme.

View TV Guide

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

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

- Press type

To view details of the event (DVB mode)

- Select the event

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.

To return to TV Guide

- Press again to return to TV Guide.

To list favourite programmes

- p. 25

To watch the programme

Select the event or programme now on the air

To the previous day

(DVB mode)

To the next day

(DVB mode)

To the previous day

(DVB mode)

To the next day

(DVB mode)

To the next day

(DVB mode)

To the previous day

(DVB mode)

To list favourite programmes

Only Analogue TV programmes are listed
Watching Videos and DVDs

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

- To connect the equipment ⇒ p. 7

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 side panel of the TV.
- Press the button repeatedly until the desired input is selected.
- You can label or skip each input modes ⇒ "Input Labels" (p. 29)

3 View Displays the selected mode

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

- Setting your remote control to operate Panasonic VCR, DVD, etc.
  1. Set the VCR / DVD switch to the appropriate position ➜ VCR / DVD switch
  2. Press and hold POWER during the following operations

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

Note
- Confirm if the remote control works correctly after changing the code.
- The codes will be set 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

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

Select the page (up to page 899)

To adjust contrast

To return to TV

Using teletext conveniently

Reveal hidden data

Reveal hidden words e.g. quiz page answers

FULL / TOP / BOTTOM

STOP / TOP / BOTTOM

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

View in multi window

Watch TV while waiting for update

View the TV picture while searching for a teletext page

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 the menu
   - (example: Picture Menu)

3. Select the item
   - Select the item (example: Picture Menu)

4. Adjust or select
   - Adjust using the slide bar (example: Picture Menu)
   - Change or store (Required by some functions)

- Choose from among alternatives
  - Number and positions of alternatives
  - Colour Balance: Normal
  - Changed

- Adjust using the slide bar
  - Sharpness
  - Moved

- Go to the next screen
  - Displays the next screen
  - Tuning Menu: Access

- Enter characters by free input menu
  - You can enter names or numbers freely for some items.

- To reset the settings
  - To reset the picture settings only
    - “Reset Picture Defaults” in Picture Menu (p. 20)
  - To reset the sound settings only
    - “Reset Sound Defaults” in Sound Menu (p. 20)
  - To initialize all settings
    - “Shipping Condition” in Setup Menu (p. 28)

- To return to TV at any time
  - EXIT

- To return to the previous screen
  - RETURN

- To change menu pages
  - Up
  - Down

Depending on the received signals, available items are varied.
How to Use Menu Functions

### Menu list

<table>
<thead>
<tr>
<th>Menu</th>
<th>Item</th>
<th>Adjustments / Configurations (alternatives)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIERA Link</td>
<td>Pause Live TV</td>
<td>Controls the connected equipment with VIERA Link function, and enables various recording, playback, etc. (p. 34 - 37)</td>
</tr>
<tr>
<td>VIERA Link Control</td>
<td>Direct TV Rec</td>
<td>You can also access VIERA Link Menu directly using the VIERA Link button on the remote control.</td>
</tr>
<tr>
<td>VIERA Link Control</td>
<td>VIERA Link Control</td>
<td></td>
</tr>
<tr>
<td>VIERA Link Control</td>
<td>Speaker Selection</td>
<td></td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Basic picture mode (Dynamic / Normal / Cinema / Eco)</td>
<td>Dynamic: Provides enhanced picture contrast and sharpness when viewing in a bright room. Normal: Recommended for viewing under normal ambient light conditions. Cinema: For watching movies in a darkened room producing a cinema-like picture. Eco: Adjusts picture settings automatically dependent on ambient light conditions.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Contrast, Brightness, Colour, Sharpness</td>
<td>Increases or decreases the levels of these options according to your personal preference.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Tint</td>
<td>With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste. For NTSC or Component / HDMI input signal, reception only.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Colour Balance</td>
<td>Allows you to set the overall colour tone of the picture (Cool / Normal / Warm).</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>P-NR</td>
<td>Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max). For PAL or NTSC signal reception only.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>3D-COMB</td>
<td>Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen. Set to “Off” to display sharper and more accurate colours (Off / On). For PAL or NTSC signal reception only.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Headphone Volume</td>
<td>Adjusts the volume of the headphones.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Volume Correction</td>
<td>Adjusts the low frequency sound (Over 30 cm / Up to 30 cm). If the back space between the TV and wall is over 30 cm, “Over 30 cm” is recommended.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>MX</td>
<td>Select stereo / monaural (Mono / Stereo) (p. 41). Normally: Stereo. Stereo signal cannot be received: Mono. M1 / M2: Available while mono signal is transmitted. An analogue mode only.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>DVB Audio Preference</td>
<td>Selects the initial setting for Audio tracks. For Dolby Digital or 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.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>SPDIF Selection</td>
<td>Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>MGP Optical Level</td>
<td>You can adjust the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting.</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>Audio Selection</td>
<td>Selects the preferred language for DVB multi audio (depending on the broadcaster).</td>
</tr>
<tr>
<td>Viewing Mode</td>
<td>HDMI1 Input</td>
<td>You can adjust the input signal (Auto / Digital / Analogue) (p. 31). Auto: Automatic detection of digital or analogue source. Digital: HDMI cable connection. Analogue: HDMI-DVI adapter cable connection. HDMI input mode only. No setting for HDMI2 available.</td>
</tr>
<tr>
<td>Viewing Mode</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>

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<td>DVB Favourites Edit</td>
<td>Creates list of favourite programmes (p. 25)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>DVB Service List</td>
<td>Skips the unwanted DVB programmes (p. 25)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Analogue Service List</td>
<td>Skips the unwanted Analogue programmes or edits Analogue programmes (p. 25)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Auto Tuning</td>
<td>Automatically sets the programmes received in the area (p. 27)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>DVB Manual Tuning</td>
<td>Sets the DVB programmes manually (p. 27)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Analogue Manual Tuning</td>
<td>Sets the Analogue programmes manually (p. 27)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Add New DVB Services</td>
<td>Adds new DVB services (p. 27)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>New Service Message</td>
<td>Selects whether to give a notification message when a new DVB service is found (p. 27)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>DVB Signal Display</td>
<td>Checks the DVB signal condition (p. 27)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Off Timer</td>
<td>Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Teletext</td>
<td>Teletext display mode (TOP (FASTEXT) / List (p. 16)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Shipping Condition</td>
<td>Resets all settings, for example, when moving house (p. 28)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>System Update</td>
<td>Downloads new software to TV (p. 23)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Picture Overscan</td>
<td>Selects the screen area displaying the image (Off / On). Normally: Stereo. Stereo signal cannot be received: Mono. M1 / M2: Available while mono signal is transmitted. An analogue mode only.</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Banner Display</td>
<td>Sets how long the information banner (p. 11) stays on screen.</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>VIERA Link Settings</td>
<td>Selects to use VIERA Link functions (Off / On) (p. 34)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Power off Link</td>
<td>Selects to use Power off Link function (No / Set) (p. 34)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Region Select</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>
</tr>
<tr>
<td>VIERA Link</td>
<td>Power on Link</td>
<td>Selects to use Power on Link function (No / Set) (p. 34)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Daylight Saving Time</td>
<td>Selects the time offset from the standard time for Summer Time (Auto / Off / +12Hr / +1Hr) (p. 23)</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>Software Licence</td>
<td>Displays the software licence information</td>
</tr>
<tr>
<td>VIERA Link</td>
<td>System Information</td>
<td>Displays the system information of this TV</td>
</tr>
</tbody>
</table>

!!A different menu will be displayed while PC, DVI to HDMI adapter cable or SD Card is used. (p. 30-31 and p. 33)!!
!!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
   MENU

3. Select “Setup”
   Access
   Select

4. Select “System Update”, “Region Select” or “Daylight Saving Time”
   Access
   Select

5. Set

To return to TV
EXIT

---

**Update TV’s software system**

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

**System Update**

- **On**: Automatically performs a search in standby and downloads an update, if any software updates are available.
- **Note**: When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM (p. 40) when “Auto update Search in Standby” is set to “On”. These sounds are normal.

**To update immediately**

Select “System Update Search Now”

- **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**

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

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

**Region Select**

- **NSW / ACT**: +10:00, +11:00
- **South Australia**: +9:30, +10:30
- **Western Australia**: +8:00, +9:00
- **Northern Territory**: +9:30
- **Tasmania**: +10:00, +11:00 (Based on GMT)

**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.

**Daylight Saving Time**

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

**Download new software to TV**

- **For details**: p. 40

**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.**

**Download may take for about 20 mins.**

**Download new software to TV.**

- **For details**: p. 40

**System Update Search Now**

- **Select “System Update Search Now”**

- **Search for an update (for several mins.) and displays a corresponding message if any**

- **Download**

- **Download may take for about 20 mins.**
Editing Programmes

You can make your favourite programme lists and skip unwanted programmes, etc.

1. Select DVB or Analogue

2. Display the menu

3. Select “Setup” or “DVB Service List” or “Analogue Service List”

4. Edit analogue programmes (Channel, Move)

5. Store
**Tuning Programmes**

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

1. 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 Manual Tuning” is available in Analogue mode only.

2. Display the menu

3. Select “Setup”

4. Select “Tuning Menu”

5. Select a function

6. Set

- **For Auto Tuning, using the buttons on the front of the TV (p. 8)**
  1. Press repeatedly until “Auto Tuning” appears
  2. Access “Auto Tuning”
  3. Start “Auto Tuning”

- **Access “Auto Tuning”**

- **Start “Auto Tuning”**

- **To return to TV**
**Restore Settings**

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

1. Display the menu
2. Select “Setup”
3. Select “Shipping Condition”
4. Set

- To return to TV: EXIT

**Check the message and initialise**

Shipping Condition

Analogue & DVB tuning data will be erased
Are you sure?
Are you sure?
Confirm: EXIT
RETURN

**Follow the on-screen instructions**

- “Auto Tuning” will automatically start when Mains power On / Off switch is next turned On. (p. 9)
- To retune TV programmes only, e.g. after moving house
  - “Auto Tuning” (p. 27)

**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.

1. Display the menu
2. Select “Setup”
3. Select “Input Labels”
4. Select a input terminal and set

- To return to TV: EXIT

**Select a input terminal and set**

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

User input

(maximum: ten characters)

Store
RETURN
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. 39

■ To return to TV ⇒ TV

■ PC menu setting (changed as desired)
  ⇒ To make settings ⇒ “How to Use Menu Functions”⇒ to⇒ (p. 18)

Menu Item Adjustments / Configurations (options)

<table>
<thead>
<tr>
<th>Advanced PC Settings</th>
<th>Picture</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-Gain</td>
<td>Adjusts the white balance for red areas</td>
<td></td>
</tr>
<tr>
<td>G-Gain</td>
<td>Adjusts the white balance for green areas</td>
<td></td>
</tr>
<tr>
<td>B-Gain</td>
<td>Adjusts the white balance for blue areas</td>
<td></td>
</tr>
<tr>
<td>Gamma</td>
<td>(2.0 / 2.2 / 2.5)</td>
<td></td>
</tr>
<tr>
<td>Reset PC Settings</td>
<td>Press the OK button to reset to the default Picture settings</td>
<td></td>
</tr>
<tr>
<td>Input Resolution</td>
<td>Switches to a wide view e VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) e Options change depending on signals</td>
<td></td>
</tr>
<tr>
<td>Clock</td>
<td>Set to the minimum level if noise occurs</td>
<td></td>
</tr>
<tr>
<td>H-pos</td>
<td>Adjusts horizontal position</td>
<td></td>
</tr>
<tr>
<td>V-pos</td>
<td>Adjusts vertical position</td>
<td></td>
</tr>
<tr>
<td>Clock Phase</td>
<td>Eliminates flicker and distortion e Adjust after Clock adjustment e Set to the minimum level if noise occurs</td>
<td></td>
</tr>
<tr>
<td>Sync</td>
<td>PC sync signal type (H &amp; V / SOG) e H &amp; V - Horizontal and Vertical sync from your PC (Most common sync format) SOG - Sync on Green sync from your PC</td>
<td></td>
</tr>
<tr>
<td>Reset PC Settings</td>
<td>Press the OK button to reset to the default Setup settings</td>
<td></td>
</tr>
</tbody>
</table>

■ 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, a DVD player or a game equipment, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

About connections, see “External Equipment” (p. 38).

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 guaranteed. Only HDMI video formats in page 42 HDMI table are applicable.
- If the connected equipment has an aspect adjustment function, set the aspsect 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. 42.

■ DVI connection

- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AV2 IN AUDIO terminals).

■ DVI Position Settings

If the picture position is not fit to the screen during the DVI connection, adjust the position on “DVI Position Settings” in Setup Menu. The settings are memorized for each HDMI terminals and input signals.
  ⇒ To make settings ⇒ “How to Use Menu Functions”⇒ to⇒ (p. 18)

Menu Item Adjustments / Configurations (options)

<table>
<thead>
<tr>
<th>DVI Position Settings</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>H-pos</td>
<td>Adjusts horizontal position</td>
</tr>
<tr>
<td>V-pos</td>
<td>Adjusts vertical position</td>
</tr>
<tr>
<td>Reset DVI Position Settings</td>
<td>Press the OK button to reset to the default Setup settings</td>
</tr>
</tbody>
</table>

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

Corresponding signals (p. 42)

- If “H-freq.” or “V-freq.” is shown in red, the signals may not be supported.
- PC Audio input is via AV2 Audio connection. (p. 39)

PC menu setting (*3) (changed as desired)

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

Displaying PC Screen on TV

Select the external input

Select “PC”

■ To return to TV ⇒ TV

■ PC menu setting (changed as desired)
  ⇒ To make settings ⇒ “How to Use Menu Functions”⇒ to⇒ (p. 18)
Viewing from SD Card

Still images recorded by digital cameras will be displayed.

1. Insert the SD Card

2. Enter SD mode (Photo View Mode)
   - All photos in SD Card are displayed by thumbnail.

3. Select the photo to be viewed
   - The maximum number of characters for Filename is 8.
   - The photo without record of the date is shown as "**/**/****".

4. View
   - The group of the photos without record of the date is shown as "Unknown".

---

**Slide show**

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

- Slide show settings (operate in step 3 or 4)
  - Display the menu
    - Select "Viewing Setup"
    - Select the items and set

**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 on the 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.)

**On screen messages**

- Cannot read file
  - The file is broken or unreadable.
  - The TV does not support the format.

- Is SD Card in?
  - Insert a SD Card.

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

- Over 9999 pictures found
  - Maximum valid number of photos is 9,999.
VIERA Link "HDAVI Control™"*

- Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 3" function. Connections to the equipment (DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI cable allow you to interface them automatically.
- These features are limited to models incorporating "HDAVI Control" and "VIERA Link".
- Some functions are not available depending on the equipment’s version of HDAVI Control. Please confirm the connected equipment’s version of HDAVI Control.
- VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers’ equipment that supports HDMI CEC cannot be guaranteed. Please refer to individual manuals for other manufacturers’ equipment supporting VIERA Link function. About applicable Panasonic equipment, consult your local Panasonic dealer.

Summary of VIERA Link functions

- Easy playback
  - Power on link
  - Power off link
  - Speaker control
- Control the menu of the connected equipment by VIERA remote control (Available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.)
- Pause Live TV programme
  - Direct TV Recording
  (Available with the equipment which has "HDAVI Control 3" function.)

Connections

- Read the manual of the equipment, too.
- Use fully wired HDMI compliant cable.
- Non-HDMI-compliant cables cannot be utilized.
- Recommended Panasonic’s HDMI cable part number: RP-CDHG10 (1.0 m), RP-CDHG30 (3.0 m), RP-CDHG15 (1.5 m), RP-CDHG50 (5.0 m), RP-CDHG20 (2.0 m).
- Connect the equipment supporting VIERA Link to the TV’s HDMI1 or HDMI2 terminals via fully wired HDMI cables.

Preparations

- Connect the equipment supporting VIERA Link.
- Set up the connected equipment. Read the manual of the equipment.
- For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.
- Set VIERA Link On in Setup Menu ⇒ "VIERA Link" (p. 18-19, 21)
- Set up the TV ⇒ After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1 or HDMI2 (p. 14), and make sure that an image is displayed correctly.
- This setup should be done each time when the following conditions occur:
  - for the first time / • when adding or reconnecting equipment / • when changing setup
- For Speaker control (Home Cinema)
  - To use Amplifier
    - Amplifier with VIERA Link function
  - To use Player theatre
    - Player theatre with VIERA Link function

Features available

- Automatic Input switching - When the connected equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is not returned.
- When the connected 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.)
- This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

Optional accessories

- RP-CDHG10 (1.0 m)
- RP-CDHG30 (3.0 m)
- RP-CDHG15 (1.5 m)
- RP-CDHG50 (5.0 m)
- RP-CDHG20 (2.0 m)

*The TV remains on even if the "VIERA Link" compatible equipment is turned off.

Features available (Using VIERA Link Menu)

- You can pause the live TV programme and resume later.
  - This function is available with DIGA Recorder which has HDD and "HDAVI Control 3" function.
  - If you cannot operate, check the settings and the equipment ⇒ "Preparations" (p. 34)
  - Available conditions:
    - • when watching TV programme
    - • when watching the input from DIGA Recorder

Access and pause the live TV programme

- Display "VIERA Link Menu"
- Select “Pause Live TV” and pause
  - OK
  - If you cancel pause or resumed playback, the recorded programme will be deleted from HDD.

Resume the live TV programme

- Resume (stop pause)
  - Select “Pause Live TV” and access
  - About the operations after resuming, read the manual of the equipment.

Recording the current programme in DIGA Recorder immediately.

- This function is available with DIGA Recorder which has "HDAVI Control 3" function.
- If you cannot operate, check the settings and the equipment ⇒ "Preparations" (p. 34)
- Available conditions:
  - • when watching TV programme
  - • when watching the input from DIGA Recorder

Direct TV Recording - What you see is What you record

- Display “VIERA Link Menu”
- Select “Direct TV Rec” and start recording
  - OK
  - If you cancel pause or resumed playback, the recorded programme will be deleted from HDD.

To stop recording

- Select “Stop” in “Direct TV Rec” and access
  - OK
- You can pause the live TV programme and resume later.

Connection for DIGA Recorder / HD Video Camera with VIERA Link function

- HDMI cable
- Audio cable
- Optical digital audio cable
- RCA cable

Connections

- Direct TV Recording
  - Connections to the equipment (DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc.) with HDMI cable allow you to interface them automatically. These features are limited to models incorporating "HDAVI Control" and "VIERA Link".
- Some functions are not available depending on the equipment’s version of HDAVI Control. Please confirm the connected equipment’s version of HDAVI Control.
- VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers’ equipment that supports HDMI CEC cannot be guaranteed. Please refer to individual manuals for other manufacturers’ equipment supporting VIERA Link function. About applicable Panasonic equipment, consult your local Panasonic dealer.

Easy playback

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

Power on link

- Set Power on Link “Set” in Setup Menu to use this function ⇒ "Power on Link" (p. 18-19, 21)
  - When the connected 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

- Set Power off Link “Set” in Setup Menu to use this function ⇒ "Power off Link" (p. 18-19, 21)
  - When TV is set to Standby mode, the connected equipment is also automatically set to Standby.
  - This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.
VIERA Link “HDAVI Control™”

**Features available (Using VIERA Link Menu)**

You can control some functions of the connected equipment with this TV remote control (point the remote control at the TV’s signal receiver).

- This function is available with the equipment which has “HDAVI Control 2” or “HDAVI Control 3” function.
- If you cannot operate, check the settings and the equipment → “Preparations” (p. 34)

Access and operate the menu of the equipment

1. Display “VIERA Link Menu”
2. Select “VIERA Link Control”
3. Select the equipment you want to access
   - “Home Cinema” means Player theatre, Recorder theatre and Amplifier.
4. Operate the menu of the equipment
   - Available VIERA remote control buttons (depending on the connected equipment):
     - Move the cursor / select the menu
     - Move the cursor / access / adjust
     - Store / set / access
     - Exit
     - OPTION
     - Return to the previous menu
     - Exit the menu
     - Display the operation guide for the equipment / The same functions with the OPTION button of the equipment
     - Access when the key words are displayed on colour bar

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

**If you access the invalid equipment**

When the equipment with “HDAVI Control” function is connected

1. Display “VIERA Link Menu”
2. Select “VIERA Link Control”
3. Select the equipment you want to access
   - “Home Cinema” means Player theatre, Recorder theatre and Amplifier.
4. Operate the menu of the equipment
   - Available VIERA remote control buttons (depending on the connected equipment):
     - Move the cursor / select the menu
     - Move the cursor / access / adjust
     - Store / set / access
     - Exit
     - OPTION
     - Display the operation guide for the equipment / The same functions with the OPTION button of the equipment
     - Access when the key words are displayed on colour bar

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

**When the equipment of other types or manufacturers is connected**

1. Display “VIERA Link Menu”
2. Select “VIERA Link Control”
3. Select the equipment you want to access
   - “Home Cinema” means Player theatre, Recorder theatre and Amplifier.
4. Operate the menu of the equipment
   - Available VIERA remote control buttons (depending on the connected equipment):
     - Move the cursor / select the menu
     - Move the cursor / access / adjust
     - Store / set / access
     - Exit
     - OPTION
     - Display the operation guide for the equipment / The same functions with the OPTION button of the equipment
     - Access when the key words are displayed on colour bar

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

**Note**

- This function may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when the playback starts.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier or Player theatre. Read the manual of the equipment.
- About HDMI cable for connecting Panasonic HD Video Camera, read the manual of the equipment.
- If more than one equipment of the same type are connected to the TV by HDMI cables, for example two DIGA Recorders to HDMI1 and HDMI2, VIERA Link will only be available for the lower terminal number, in this case HDMI1.

“HDAVI Control 3” is the newest standard (current as of December, 2007) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.

To confirm this TV’s version of HDAVI Control ➔ “System Information” (p. 21)
### 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. 46).

#### Recording / Playback (equipment)
- To record / playback videocassettes / DVDs (VCR / DVD recorder)
- To watch DVDs (DVD player)
- To watch camcorder images (Video camera)
- To watch satellite broadcasts (Set top box)
- To play games (Game equipment)

#### Amplifier with speaker system

#### Audio equipment

<table>
<thead>
<tr>
<th>Types of connectable equipment to each terminal</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>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>To record / playback videocassettes / DVDs</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>To watch DVDs (DVD player)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>To watch camcorder images (Video camera)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>To watch satellite broadcasts (Set top box)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>To play games (Game equipment)</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
<tr>
<td>To use amplifier with speaker system</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td>O</td>
<td></td>
</tr>
</tbody>
</table>

#### Recommended Connections
- Connect the S VIDEO or VIDEO terminal when using AV3 / AV4 IN terminals.
- Connect the COMPONENT or VIDEO terminal when using AV1 / AV2 IN terminals.
**Technical Information**

### Programme Allocation (Analogue mode)

<table>
<thead>
<tr>
<th>CH Display / Receive Programme</th>
<th>CH Display / Receive Programme</th>
<th>CH Display / Receive Programme</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH0</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>CH 9A</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 18+</td>
</tr>
<tr>
<td>PG</td>
<td>Parental Guidance recommended</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Updating the software system (DVB mode)

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

- If there is an update available, a notification banner is displayed when the service has the update information.
- To download new software, press "OK". Downloading (approx. 20 mins.)
- 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 morning under the following conditions:
  - Standby (TV turned Off with the remote control)

#### To update manually

Perform "System Update Search Now" (p. 23)
- If there is an update available, a notification banner is displayed.
- To download new software, press "OK". Downloading (approx. 20 mins.)
- If you choose not to download, press "EXIT".

### Note

- During downloading, do not turn Off the TV or touch any buttons.
- When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM when 'Auto update Search in Standby' (p. 23) is set to "On". These sounds are normal.

### 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
- **Transfer rate**: 1.6 MB/Sec
- **Compliant card type (maximum capacity)**: SDHC Card (16 GB), SD Card (2 GB), Multi Media Card (128 MB), miniSD Card (1 GB) (requiring miniSD adapter)
- **Notes on miniSD Card**: Insert / remove it together with the adapter.

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

When you receive the stereo / bilingual sound system, sound output modes can be selected by “MPX” in the Sound Menu (p. 20).

<table>
<thead>
<tr>
<th>Audio Signal</th>
<th>STEREO</th>
<th>MAIN</th>
<th>SUB</th>
<th>MONO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mode Indicator</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- **Type of broadcast**: Regular broadcast (Standard Audio) / Regular + NICAM MONO (MAIN1) / NICAM STEREO / NICAM DUAL MONO (MAIN1 / SUB 1)
- **Mode Indicator**: No Indicator — ▼

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

- **Type of broadcast**: Regular broadcast (Standard Audio) / BILINGUAL or DUAL MONO: MAIN1 / SUB 1
- **Mode Indicator**: No Indicator — ▼

### 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.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.
Technical Information

PC connection

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

PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).

A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

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

Neither image nor sound is produced

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

An error message appears

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

Input signal that can be displayed

<table>
<thead>
<tr>
<th>COMPONENT (Y, Pb/Cb, Pr/Cr), HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>* Mark: Applicable input signal</td>
</tr>
<tr>
<td><strong>Signal name</strong></td>
</tr>
<tr>
<td>Y 480i (60Hz)</td>
</tr>
<tr>
<td>Y 480p (60Hz)</td>
</tr>
<tr>
<td>Y 576i (50Hz)</td>
</tr>
<tr>
<td>Y 720p (60Hz)</td>
</tr>
<tr>
<td>Y 1080i (50Hz)</td>
</tr>
<tr>
<td>Y 1080i (60Hz)</td>
</tr>
<tr>
<td>Y 1080p (60Hz)</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 × 400 70 Hz</td>
<td>31.74</td>
<td>70.07</td>
</tr>
<tr>
<td>640 × 480 60 Hz</td>
<td>31.47</td>
<td>59.94</td>
</tr>
<tr>
<td>640 × 480 65 Hz</td>
<td>32.65</td>
<td>75.00</td>
</tr>
<tr>
<td>640 × 576 60 Hz</td>
<td>37.38</td>
<td>60.32</td>
</tr>
<tr>
<td>640 × 576 65 Hz</td>
<td>37.38</td>
<td>60.32</td>
</tr>
<tr>
<td>640 × 576 75 Hz</td>
<td>48.51</td>
<td>75.00</td>
</tr>
<tr>
<td>720p (60Hz)</td>
<td>46.36</td>
<td>60.00</td>
</tr>
<tr>
<td>1080i (60Hz)</td>
<td>59.29</td>
<td></td>
</tr>
<tr>
<td>1080i (60Hz)</td>
<td>60.02</td>
<td></td>
</tr>
<tr>
<td>1080p (60Hz)</td>
<td>65.00</td>
<td></td>
</tr>
<tr>
<td>1280 × 1024 60Hz</td>
<td>60.02</td>
<td></td>
</tr>
<tr>
<td>1366 × 768 60Hz</td>
<td>60.04</td>
<td></td>
</tr>
<tr>
<td>1440 × 900 60Hz</td>
<td>60.06</td>
<td></td>
</tr>
<tr>
<td>1536 × 864 60Hz</td>
<td>60.07</td>
<td></td>
</tr>
<tr>
<td>1600 × 900 60Hz</td>
<td>60.08</td>
<td></td>
</tr>
<tr>
<td>1680 × 1050 60Hz</td>
<td>60.09</td>
<td></td>
</tr>
<tr>
<td>1920 × 1080 60Hz</td>
<td>60.10</td>
<td></td>
</tr>
<tr>
<td>2048 × 1152 60Hz</td>
<td>60.11</td>
<td></td>
</tr>
<tr>
<td>2048 × 1080 60Hz</td>
<td>60.12</td>
<td></td>
</tr>
<tr>
<td>2560 × 1440 60Hz</td>
<td>60.13</td>
<td></td>
</tr>
<tr>
<td>2560 × 1440 75Hz</td>
<td>60.14</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.

Technical Information

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.
- Is the TV in "AV mode"?
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- Is the TV turned On?
- Check Picture Menu (p. 20) and volume.

Neither image nor sound is produced

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- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
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- Follow the message’s instructions.
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</tr>
</tbody>
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<td></td>
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<td></td>
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<tr>
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<td>65.00</td>
<td></td>
</tr>
<tr>
<td>1280 × 1024 60Hz</td>
<td>60.02</td>
<td></td>
</tr>
<tr>
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</tr>
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<td></td>
</tr>
<tr>
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<td></td>
</tr>
</tbody>
</table>

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**FAQs**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound is unusual</td>
<td>- Set the sound setting of the connected equipment to &quot;2ch L.PCM&quot;. - Check the &quot;HDMI1 Input&quot; setting in the Sound Menu. (p. 42) - If digital sound connection has a problem, select analogue sound connection. (p. 31)</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. 38) - Turn Off the TV and equipment, then turn them On again. - Check an input signal from the equipment. (p. 42) - Use an equipment compliant with EIA/CEA-861/861B.</td>
</tr>
<tr>
<td>TV takes so long to turn on</td>
<td>- Like your computer, the TV has to run a number of diagnostic and software checks before it can display any programmes.</td>
</tr>
<tr>
<td>The programme cannot be changed</td>
<td>- Is the TV in Teletext mode? (p. 16)</td>
</tr>
<tr>
<td>The programme cannot be selected</td>
<td>- Is the programme skipped? (p. 25)</td>
</tr>
<tr>
<td>TV goes into &quot;Standby mode&quot;</td>
<td>- Off Timer function is activated. - The TV enters &quot;Standby mode&quot; about 30 mins. after analogue broadcasting ends.</td>
</tr>
<tr>
<td>The remote control does not work</td>
<td>- Are the batteries installed correctly? (p. 6) - Has the TV been switched On?</td>
</tr>
</tbody>
</table>

**Maintenance**

First, remove the mains plug from the socket outlet.

### Display panel

- Regular care: Gently wipe the surface clean of dirt by using a soft cloth.
- Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or diluted neutral detergent 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 use a cloth or paper towel with a hard object.
- 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 rubber or PVC substance for a long time.

### Cabinet

- Regular care: Wipe the surface clean using a soft dry cloth.
- Major contamination: Dampen a soft cloth with clean water or detergent. Then, wipe the surface 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.)

### Licence

- DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).
- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Inc., USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
- Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.
- SDHC Logo is a trademark.
- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDAVI Control™ is a trademark of Panasonic Corporation.
- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
### Specifications

#### Power Source
- AC 220-240 V, 50 / 60 Hz

#### Average use
- 102 W

#### Standby condition
- 0.3 W

#### Display
- Aspect Ratio: 16:9
- Visible screen size: 66 cm (diagonal)
- Number of pixels: 1,049,088 (1,366 (W) x 768 (H))

#### Audio Output
- 120 mm × 60 mm × 2 pcs, 8 Ω
- Power: Average use 102 W

#### Headphones
- M3 (3.5 mm) stereo mini jack × 1

#### PC signals
- VGA, SVGA, XGA
- SXGA — (compressed)
- Horizontal scanning frequency 31 - 69 kHz
- Vertical scanning frequency 59 - 66 Hz

#### Receiving Systems / Band name
- PAL, B/G: Reception of Off air broadcasts
- 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
- Panel Aspect Ratio: 16:9
- Number of pixels: 1,049,088 (1,366 (W) x 768 (H))

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

#### Connection terminals

<table>
<thead>
<tr>
<th>AV1 Input</th>
<th>AV2 Input</th>
<th>AV3 Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIO L - R</td>
<td>AUDIO L - R</td>
<td>AUDIO L - R</td>
</tr>
<tr>
<td>COMP</td>
<td>COMPONENT</td>
<td>COMPONENT</td>
</tr>
<tr>
<td>RCA PIN Type × 2</td>
<td>RCA PIN Type × 2</td>
<td>RCA PIN Type × 2</td>
</tr>
<tr>
<td>0.5 V[ms]</td>
<td>0.5 V[ms]</td>
<td>0.5 V[ms]</td>
</tr>
<tr>
<td>VIDEO</td>
<td>VIDEO</td>
<td>VIDEO</td>
</tr>
<tr>
<td>RCA PIN Type × 1</td>
<td>RCA PIN Type × 1</td>
<td>RCA PIN Type × 1</td>
</tr>
<tr>
<td>1.0 V[pp] (75 Ω)</td>
<td>1.0 V[pp] (75 Ω)</td>
<td>1.0 V[pp] (75 Ω)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AV4 Input</th>
<th>Monitor Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIO L - R</td>
<td>AUDIO L - R</td>
</tr>
<tr>
<td>SVIDEO</td>
<td>S VIDEO</td>
</tr>
<tr>
<td>RCA PIN Type × 1</td>
<td>RCA PIN Type × 1</td>
</tr>
<tr>
<td>1.0 V[pp] (75 Ω)</td>
<td>1.0 V[pp] (75 Ω)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PC Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH DENSITY D-SUB 15 PIN</td>
</tr>
<tr>
<td>R, B, G, 0.7 V[pp] (75 Ω)</td>
</tr>
<tr>
<td>HD, Y/D/T/Y, Level 2.0 - 5.0 V[pp] (High impedance)</td>
</tr>
<tr>
<td>PCM/Digital Audio Out</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI / I2C Input</td>
</tr>
<tr>
<td>TYPE A Connectors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Card slot</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD CARD slot × 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>(W × H × D)</td>
</tr>
<tr>
<td>700 mm × 505 mm × 225 mm (With TV Stand)</td>
</tr>
<tr>
<td>700 mm × 466 mm × 108 mm (TV only)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0 kg Net</td>
</tr>
</tbody>
</table>

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

---

**WARRANTY - Australia only**

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.

2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.

3. This warranty only applies if the product has been installed and used in accordance with the manufacturer’s recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dust or dirt, abuse, misadjustment of customer controls, mains supply problems, thunderstorm, vibration, 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 where the fault or defect existed at the time of purchase:
   - (a) Video or Audio Tapes
   - (b) Video or Audio Heads and Stylii resulting from wear and tear in normal use
   - (c) Shaver Heads or Cutters Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads
   - (d) Cabinet Parts
   - (e) User replaceable Batteries
   - (f) Thermal Paper, Toner/Ink Cartridges, (bread bakery)
   - (g) Microwave Oven cook plates.

5. If warranty service is required you should:
   - Telephone Panasonic’s Customer Care Centre on 132 600 or visit our website and use the Service Centre Locator for the name/address of Panasonic Authorised Service Centres
   - 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 Centre:
     - (a) Picture tube (CRT) based Televisions
     - (b) Combination/Combination Microwave Ovens
     - (c) Whiteboard (except portable type)

6. The warranty 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, freight, 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 transport.

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 132 600 or visit our website and use the Service Centre Locator.

Unless otherwise specified to the contrary this express warranty is 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.