

Panasonic®

Model No.
TH-L24X5A
TH-L24X5Z

Operating Instructions LCD Television



VIERA

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

English

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SAFETY PRECAUTIONS

Warning

Handling the mains plug and lead

- Insert the mains plug fully in to 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 an electrical shock.
- Do not damage the mains lead, damaged lead may cause fire or electrical shock.
 - Do not move the TV with the lead plugged in to a socket outlet.
 - Do not place a heavy object on the lead or place the lead near a high temperature object.
 - Do not twist the lead, bend it excessively or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting the plug.
 - Do not use a damaged mains plug or socket outlet.
 - Ensure TV does not crush the mains lead.

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

**AC 220-240 V
50 Hz**



Power source

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

Do not remove covers and NEVER modify the TV yourself

- High voltage components may cause serious electrical shock, do not remove the rear cover as live parts are accessible when it is removed.
- There are no user serviceable parts inside.
- Have the TV checked, adjusted or repaired at your local Panasonic dealer.

Do not expose the TV set to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat.



To prevent the spread of fire, keep candles or other open flames away from this product at all times

Do not expose to rain or excessive moisture

- To prevent damage which might result in electric shock or fire, do not expose this TV to rain or excessive moisture.
- This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

Do not place the TV on unstable surfaces

- The TV may fall or tip over.

Use only original dedicated pedestal / mounting equipment

- Using an unapproved pedestal or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform the set up or installation.
- Use approved pedestals / wall-hanging brackets.

Caution

When cleaning the TV remove the mains plug

- Cleaning an energised TV may cause electrical shock.

Remove the mains plug from the wall socket when TV is not in use for a prolonged period of time

- The TV will still consume some power even in the off mode, as long as the mains plug is still connected.
- Remove the mains plug from the wall socket before connecting or disconnecting leads.

Do not expose your ears to excessive volume from the headphones

- Irreversible damage can be caused.

Do not apply strong force or impact to the display panel

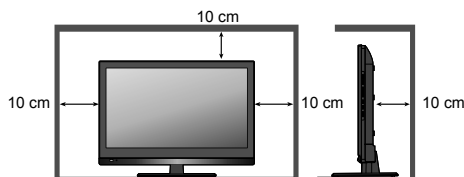
- This may cause damage resulting in injury.

Transport TV set in upright position

Do not block the rear air vents

- Adequate ventilation is essential to prevent failure of electronic components.
- Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.
- We recommend that a gap of at least 10 cm is left all around this television receiver even when placed inside a cabinet or between shelves.
- When using the pedestal, keep the space between the bottom of the TV and the surface where the TV is set. If pedestal is not used, ensure the vents in the bottom of the TV set are not blocked.

Minimum distance



Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

Regular care :

Gently wipe the surface of the display panel, cabinet, or pedestal by using a soft cloth to clean the dirt or fingerprints.

For stubborn dirt :

Dampen a soft cloth with clean water or diluted neutral detergent (1 part detergent to 100 parts water). Then wring the cloth and wipe the surface. Finally, wipe away all the moisture.

Caution

- Do not use a hard cloth or rub the surface too hard. This may cause scratches on the surface.
- Take care not to subject the TV's surfaces to water or detergent. A liquid inside the TV could lead to product failure.
- Take care not to subject the surfaces to insect repellent, solvent, thinner or other volatile substances. This may degrade surface quality or cause peeling of the paint.
- Take care not to tap or scratch the surface with your fingernail or other hard objects.
- Do not allow the cabinet and pedestal to make contact with a rubber or PVC substance for a long time. This may degrade surface quality.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. Moisture and dust may lead to fire or electrical shock.

IMPORTANT INFORMATION

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

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

Standard Accessories

☒ Check you have all the items shown.

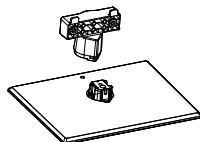
☐ Remote Control
(TZSZ00000002A)



☐ Batteries (AAA) x 2



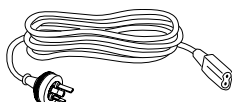
☐ Neck and Base



☐ Screws x 3
(Assembly screws for neck and base)



☐ Power Cord



Attaching the Stand Base

Warning

Do not disassemble or modify the pedestal.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Caution

Do not use any pedestal other than that provided with this TV.

- Otherwise the TV may fall over and become damaged, and personal injury may result.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal while it is physically damaged, personal injury may result. Contact your nearest Panasonic dealer immediately.

During assembly, use only screws supplied and make sure that all screws are securely tightened.

- If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV. It might fall over and become damaged and personal injury may result.

Ensure that the TV does not fall over.

- If the TV is knocked or children climb onto the pedestal with the TV installed, the TV may fall over and personal injury may result.

Two or more people are required to install and remove the TV.

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

Caution

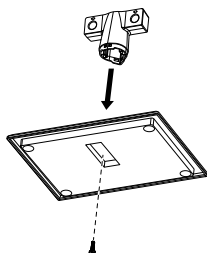
Small object

This product contains possibly dangerous parts that can be breathed in or swallowed by young children accidentally

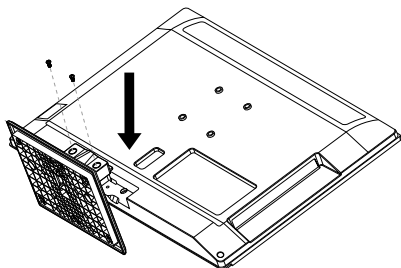
- Keep the dangerous parts out of reach of young children.

Installing Stand Base

1. Place the LCD TV screen facing down on a flat surface place where maintained with soft materials (such as a blanket) for protecting the display screen.
2. Use the assembly screw to fasten the neck to the base securely.

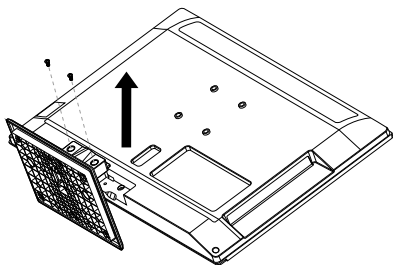


3. Use only the supplied assembly screws to fasten the stand securely to the TV.



Uninstalling Stand Base

1. Place the LCD TV screen facing down on a flat surface place where maintained with soft materials (such as a blanket) for protecting the display screen.
2. Remove screws in two holes with screw driver.



Wall Mounting (Not supplied)

Use the screws that are threaded into the stand-mounting inserts on the back of your LCD TV to secure it to a Wall Mounting kit.

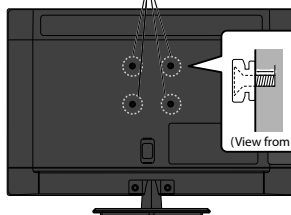
Note:

Wall Mounting kit is not supplied.

It is safe to use long screws for this product.

When using long screws, the two bottom screws may come loose, But the top two will remain tight in place, so it will not fall off the wall.

Wall Mounting Inserts

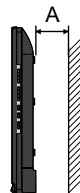


Depth of screw : 7 mm
Diameter : M4
 Screw for fixing the TV onto the wall-hanging bracket (not supplied with the TV)
 (View from the side)

VESA standard interface

75 x 75 mm

Mounting screws measurements:



Mounting Screws	Distance between TV and wall(A)
M4 Diameter, Length - 6mm (min.); 7mm (max.)	10 cm

Wall-hanging bracket (Optional)

Please contact your nearest Panasonic dealer to purchase the recommended optional accessories.

For additional details, please refer to the manual of the optional accessories.

- Using other wall-hanging brackets, or installing a wall hanging bracket by yourself have the risk of personal injury and product damage. In order to maintain the unit's performance and safety, be absolutely sure to ask your dealer or a licensed contractor to secure the wall-hanging brackets. Any damage caused by installing without a qualified installer will void your warranty.
- 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.
- Take care when fixing wall brackets to the wall. Always ensure that there are no electrical cables or pipes in the wall before hanging bracket.
- To prevent fall and injury, remove the TV from its fixed wall position when it is no longer in use.

PART NAMES AND FUNCTIONS

TV Controls/ Indicators



1 Remote Control Signal Receiver

- Do not place any objects between the TV remote control signal receiver and remote control.

2 Power Indicator

Red: Standby

Green: On

Green blink: Receiving a command from the remote control

3 VOL +/-

- Used to change volume.

- Used to adjust the value of the selected item on On-Screen Menu.

4 CH ▲/▼

- Used to change channels.

- Used to select item on On-Screen Menu.

5 MENU

- Open or close the On-Screen Menu.

6 INPUT/OK

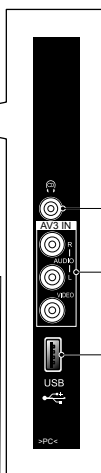
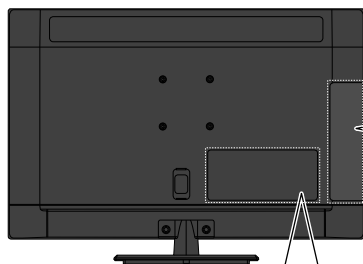
- Use to select an input source.

- Confirm and enter a selection.

7 (POWER)

- Use to turn the TV On or Off.

TV (Side / Back)



1 HDMI 1/HDMI 2

- Connect all kinds of HDMI output equipment.
- When connecting a DVI device using an HDMI-DVI adapter, connect the device to the HDMI1 jack.

2 AV 2 IN

- Connect video and audio output from video equipment.

3 AV 1 IN

- Connect video and audio output from video equipment.

4 DIGITAL AUDIO OUT

Connect an audio amplifier to this jack.

5 AUDIO OUT

- Connect an external sound system to these jacks.

6 ANT

- For digital cable, digital terrestrial and analogue broadcasts.

7 PC

- Connect computer outputs to this terminal.
- Connect an audio cable to L/R jacks of AV2 and audio out jack on the computer.

8 Headphone

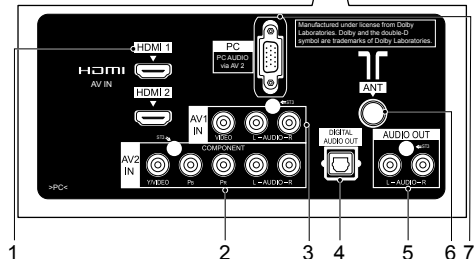
- Connect a headphone (stereo) to this jack and the TV speaker out will be muted.

9 AV 3 IN

- Connect video and audio output from video equipment.

10 USB

- Connect USB memory stick to this terminal to play Multimedia.



Connections

Computer Connection

Cable used for connection (This cable is not supplied with this LCD TV.)

- PC/VGA Cable (D-SUB 15pin)
- HDMI Cable
- Audio Cable [L/R]

Note:

When connecting the cable, AC Power Cords of both LCD TV and external equipment should be disconnected from AC outlet. Turn LCD TV and peripheral equipment on before your computer is switched on.

Note:

You can connect the DVI source to HDMI1 input terminal by using the DVI to HDMI converter then connect audio input to PC audio input terminal (L/R jacks of AV2 INPUT).

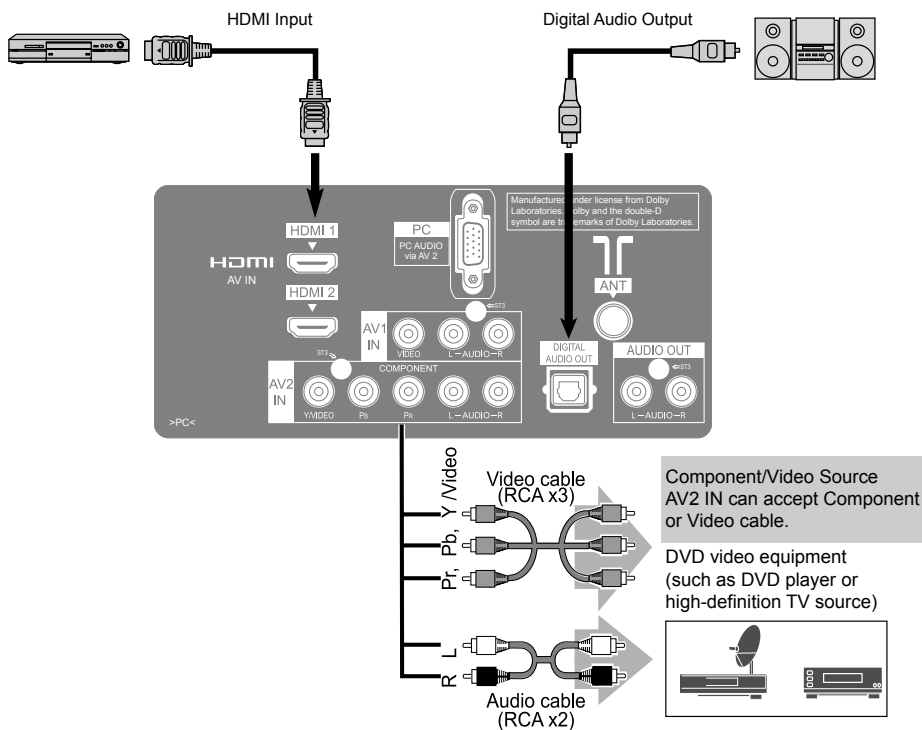
Video Equipment Connection

Cables used for connection (These cables are not supplied with this LCD TV.)

- Component/Video, Audio Cable
- HDMI Cable: HDMI Input

Note:

When connecting the cable, AC Power Cords of both LCD TV and external equipment should be disconnected from AC outlet.

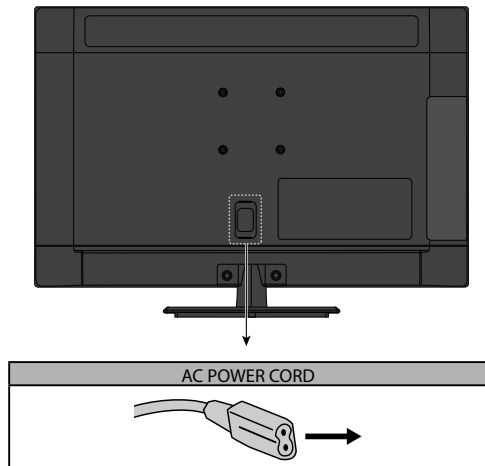


AC Power Cord Connection

This LCD TV uses nominal input voltages of 220-240V AC. It is designed to work with single-phase power systems. To reduce risk of electrical shock, do not plug into any other type of power system. Consult your authorised dealer or service station if you are not sure the type of power being supplied. Connect the LCD TV with all peripheral equipment before turning the LCD TV on.

Caution

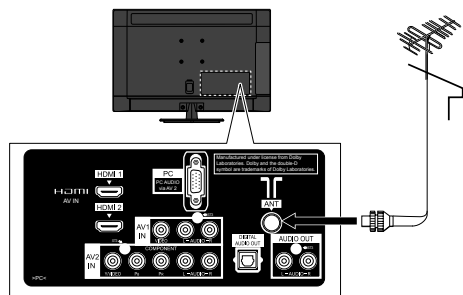
- For safety, unplug AC power cord when the LCD TV is not in use.



Aerial or Cable Connection

Cable used for connection (This Outdoor Aerial cable is not supplied with this LCD TV.)

- Aerial Cable

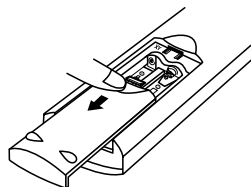


Note:

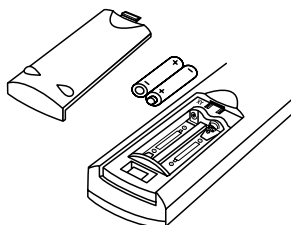
- For all aerial circuit problems, please consult your local dealer.

Remote Control Batteries Installation

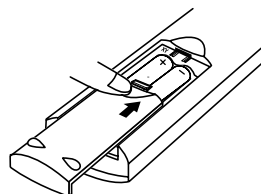
1. Remove the battery compartment cover.



2. Insert two size AAA batteries (1.5V) according to "+" and "-" polarity markings inside the battery compartment.



3. Close the battery compartment cover.

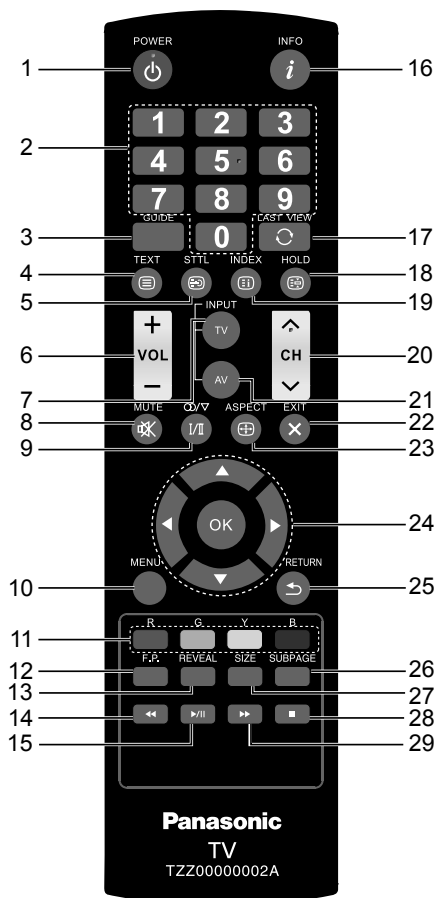


Caution

To insure safe operation, please observe the following precautions:

- Replace two batteries at the same time.
- Do not use a new battery with a used battery.
- Avoid contacting with water or liquid.
- Do not expose the Remote Control or Batteries to moisture, or heat such as sunshine, fire or the like.
- Do not drop the Remote Control.
- If a battery has leaked on the Remote Control, carefully wipe case clean and install new batteries.
- Risk of explosion if battery is replaced by an incorrect type.
- Dispose of used batteries according to the instructions.
- Remote control contains AAA battery and must be kept out of reach of small children to avoid accidental ingestion.

Remote Control



1 (POWER) Standby On / Off switch

- Switches TV On or Off standby.

2 Numeric buttons

- Changes channel and teletext pages.

3 GUIDE

- Displays TV Guide.
- Activates FreeView contents when MHEG source inputs.

4 TEXT

- Switches to teletext mode.

5 STTL

- Displays subtitles.

6 VOL +/-

- Press to adjust the volume.

7 INPUT (TV)

- Switches to TV input source.

8 MUTE

- Press to mute or restore the sound.

9 (SOUND) (SOUND/TV)

- Select a sound multiplex mode.

10 MENU

- Open or close the On-Screen Menu.

11 R/G/Y/B (COLOUR BUTTON)

- Used for the selection, navigation and operation of various functions.

12 F.P. (Favourite Page)

- Opens the favourite page list in teletext mode.

Note:

- Add a teletext page into the favourite page list:

- When you enter a teletext page, press **F.P.** button to open the favourite page list, then press **OK** to add the selected teletext page into the favourite page list.

- View a favourite page:

- Press **F.P.** button to open the favourite page list, selects a teletext page, then press **OK** to enter the content.

- Remove a favourite page from the favourite page list:

- Press **F.P.** button to open the favourite page list, selects the teletext page, then press **OK** to enter the content.
- Press **F.P.** button again to open the favourite page list, selects the current teletext page, then press **OK** to remove the teletext page from the favourite page list.

13 REVEAL

- Reveal hidden information such as answers to a quiz.

14 ◀◀

- Fast reverse for multi-media playback.

15 ▶▶/II

- Play or pause for multi-media playback.

16 (i) (INFO)

- Displays channel and programme information.

17 (LAST VIEW)

- Switches to previously viewed channel or input mode.

18 (HOLD)

- Stops the scrolling of pages and hold the current page in teletext mode.

- The text decoder stops receiving data.

19 (INDEX)

- Returns to the index page in teletext mode.

20 CH A/V

- Selects channel in sequence.

21 INPUT (AV)

- Opens input source list and switches to video input source.

22 (EXIT)

- Returns to the normal viewing screen.

23 (ASPECT)

- Changes aspect ratio.
- Also possible by pressing this button repeatedly until you reach the desired aspect.

24 (OK)

- Confirms selections and choices.

25 (RETURN)

- Returns to the previous menu/page.

26 SUBPAGE

- To select the subpage when the current page contains subpages.

27 SIZE

- Teletext size function key.

28 (STOP)

- Stop for multi-media playback.



29 (FF)

- Fast forward for multi-media playback.

Turning On/Off LCD TV

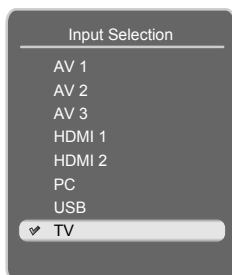
1. Complete the peripheral connections before turning on LCD TV.
2. Connect LCD TV's AC Power Cord into an AC outlet.
3. Press POWER button on Side Control of LCD TV or use Remote Control to turn it ON.
The POWER indicator will light up (green).
Press POWER button again to enter stand-by status, the POWER indicator will become red.

Note:


If there is no reaction when you press  (POWER) on the remote control, press  (POWER) button on Side Control again to active the TV.

Selecting Input Source

Select mode **AV 1**, **AV 2**, **AV 3**, **HDMI 1**, **HDMI 2**, **PC**, **USB**, or **TV** by pressing **INPUT(AV)** button of Remote Control or **INPUT/OK** button of Side Control.



ASPECT

Select screen size among "16:9", "Just", "4:3", "Zoom 1", "Zoom 2" by pressing  **ASPECT** button on Remote Control.



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



[Just]
Displays the correct format according to the input source.



[4:3]
Displays the image at the standard 4:3 without distortion.



[Zoom 1]
Scales the classic 4:3 format to 14:9.



[Zoom 2]
Scales the classic 4:3 format to 16:9.

Initial Setup

1 Initial Setup



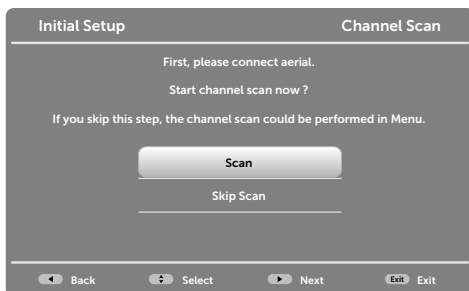
2 Mode Select (TV location setting)



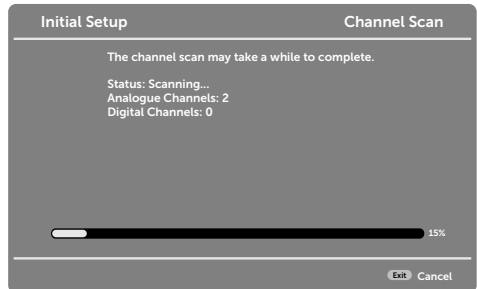
Note:

If you selected **Shop**, a message appears "Are you sure?" Select **Yes** to continue, or select **No** to change your selection.

3 Channel Scan



4 Search for channels



5 Initial setup completed



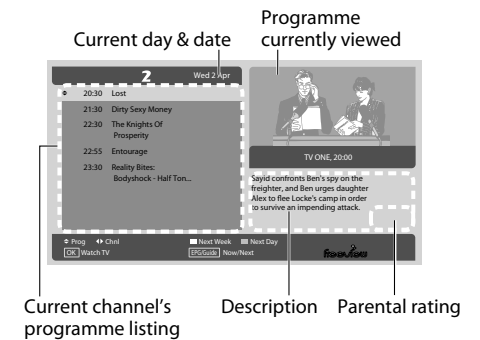
Using the Freeview Guide (Digital TV mode)

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

View the Freeview Guide

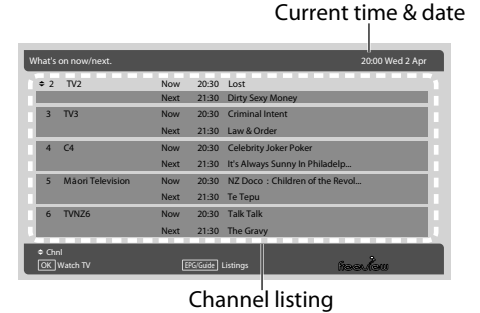
- Each time pressed, the screen will be switched between the Freeview Guide Listing and What's on Now / Next.

Example: Freeview Guide Listing



Buttons	Description
OK	• Watch TV
Yellow	• To the previous day
Blue	• To the next day
▲/▼	• To scroll through programme
◀/▶	• To scroll through channel

Example: What's on Now / Next



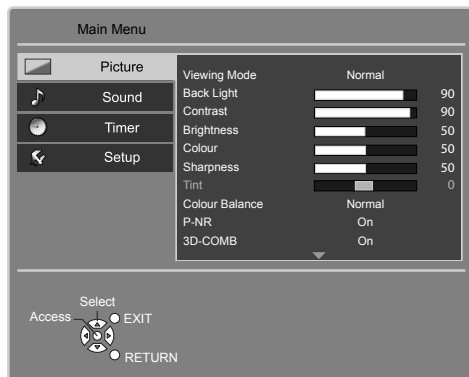
Buttons	Description
OK	• Watch TV
▲/▼	• To scroll through channel

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 Freeview Guide is completely shown.
- The Freeview Guide screen and operations are subject to change without notice.
- For TH-L24X5Z model only.

On-Screen Display

Picture



1. Press **MENU** button and **▲▼** buttons to select "Picture", the Picture menu will be displayed.
2. Press **OK** button to enter Picture menu.
3. Press **▲▼** buttons to select item desired.
4. Press **◀▶** buttons to adjust value.
5. Press **RETURN** button to return the previous menu.
6. Press **EXIT** button to exit menu operation.

Viewing Mode

- Basic viewing mode **Dynamic/Normal/Cinema/User/Game**.

Dynamic

- Provides enhanced picture contrast and sharpness when viewing in a bright room.

Normal

- Recommended for viewing under normal ambient room lighting conditions.

Cinema

- For watching movies in a darkened room with the improved performance of contrast, black and colour reproduction.

User

- Sets the settings for your preferred.

Game

- Fast response signal specifically to provide suitable images for playing games.

Warning

- TELEVISION IS IN SHOP MODE.

Back Light

- Adjusts the luminance of the back light. (0~100)

Contrast

- Increases or decreases the levels of contrast according to your personal preference. (0~100)

Brightness

- Increases or decreases the levels of brightness according to your personal preference. (0~100)

Colour

- Increases or decreases the levels of colour according to your personal preference. (0~100)

Sharpness

- Increases or decreases the levels of sharpness according to your personal preference. (0~100)

Tint

- With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste. (-50~50)
- For NTSC signal reception only.

Colour Balance

- Allows you to set the overall colour tone of the picture **Cool/Normal/Warm**.

P-NR

- Enables or disables P-NR (Picture Noise Reduction)
- Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture.

3D-COMB

- Makes still or slow moving pictures look more vivid.
- For CVBS signal reception only.

Screen Display

- Turns the screen **On** or **Off**.
- Press any buttons (except Standby) to turn the screen on.
- The sound is active even if the screen turns off.
- This function is effective in reducing power consumption when listening to the sound without watching the TV screen.

H. pos

- Adjusts the horizontal position of the picture.
- Only for HDMI(DVI) only.

V. pos

- Adjusts the vertical position of the picture.
- Only for HDMI(DVI) only.

Advanced Settings

- Provides various advanced settings for improving the picture quality.

16:9 Overscan

- Selects the screen area displaying the image.
 - **On:** Enlarges the image to hide the edge of the image.
 - **Off:** Displays the image in the original size.

Adaptive Brightness

- Automatically adjusts the brightness and contrast after analysing the input signal. This function enriches the colours and the depth of the picture.

Dynamic Back Light

- Automatically optimises the backlight levels for dark scenes.

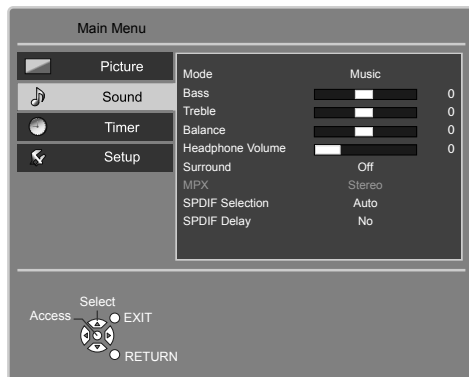
DVI Input Settings

- Changes the black level in the image for HDMI input mode with DVI input signal manually.
- For HDMI terminal with DVI input signal only.

3:2 pulldown

- Automatically detects a film-based source (originally encoded at 24 frames/second), analyses it then recreates each file frame for high-definition picture quality.
- 3:2 pulldown function is selectable when channel display shows an input resolution of 576i, 480i, or 1080i.

Sound



1. Press **MENU** button and **▲▼** buttons to select "Sound", the Sound menu will be displayed.
2. Press **OK** button to enter Sound menu.
3. Press **▲▼** buttons to select item desired.
4. Press **◀▶** buttons to adjust value.
5. Press **⏮** **RETURN** button to return the previous menu.
6. Press **⏻** **EXIT** button to exit menu operation.

Mode

- Selects the basic sound mode **Music** or **Speech**.

Music

- Optimise sound quality for watching music videos, etc.

Speech

- Optimise sound quality for watching news, drama, etc.

Bass

- Increases or decreases level to enhance or minimise lower, deeper sound output. (-14~14)

Treble

- Increases or decreases level to enhance or minimise sharper, higher sound output. (-14~14)

Balance

- Adjusts volume level of right and left speakers. (-50~50)

Headphone Volume

- Adjusts the volume of the headphones. (0~100)

Surround

- Enriches (expanding and deepening) the sound quality.

MPX

- Selects multiplex sound mode (if available).
- For analogue mode only.

SPDIF Selection

- Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal.

Auto

- Outputs Dolby Digital (if available) or default audio source to DIGITAL AUDIO OUT terminal.
- If the audio is recorded in Dolby Digital, the output from DIGITAL AUDIO OUT terminal will be Dolby Digital.

PCM

- Outputs PCM format to DIGITAL AUDIO OUT terminal.

SPDIF Delay

- Adjusts the delay time of the sound output from DIGITAL AUDIO OUT terminal if the sound does not synchronise the image.

HDMI1 input

- Selects an input way of audio signal.
- For HDMI1 terminal only.

Digital

- Selects **Digital** to input audio signal from HDMI terminal.

Analogue

- Selects **Analogue** to input audio signal from L/R jack of AV2 INPUT.

Audio Description

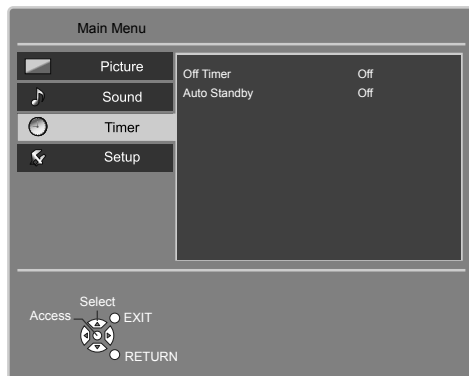
Audio Description

- **Normal:** Sets regular audio only.
- **Hard of Hearing:** Sets the mix of hearing impaired audio with regular audio.
- **Visually Impaired:** Sets the mix of visually impaired audio with regular audio.

Volume

- Adjusts the volume for Audio Description. (0~100)

Timer



1. Press **MENU** button and **▲▼** buttons to select "Timer", the Timer menu will be displayed.
2. Press **OK** button to enter Timer menu.
3. Press **▲▼** buttons to select item desired.
4. Press **◀▶** buttons to adjust value.
5. Press **⏮ RETURN** button to return the previous menu.
6. Press **⏹ EXIT** button to exit menu operation.

Off Timer

- Sets the time until the TV automatically goes to Standby mode.

Auto Standby

- Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption.

Setup



1. Press **MENU** button and **▲▼** buttons to select "Setup", the Setup menu will be displayed.
2. Press **OK** button to enter Setup menu.
3. Press **▲▼** buttons to select item desired.
4. Press **◀▶** buttons to adjust value.
5. Press **⏮ RETURN** button to return the previous menu.
6. Press **⏹ EXIT** button to exit menu operation.

PC Setup

- For PC input source only.

Input Resolution

- Options change depending on signals.

Clock

- Sets to the minimum level if noise occurs.

H-pos

- Adjusts horizontal position.

V-pos

- Adjusts vertical position.

Clock Phase

- Eliminates flicker and distortion.

Auto Adjustment

- Automatically adjusts the image settings such as position and phase.

Channels

Auto Scan

- Automatically sets the channels.

Update Channel List

- Updates channel list without erasing the original information.

Single RF Scan

- Scans single RF channels and checks the signal condition.

Analogue Manual Scan

- Searches and stores analogue TV channels manually.

Note:

TV will store scanned channels, even if the scanning for channels have not completed.

Channel Skip

- Skips one or more channels when using remote control to switch between channels.

Channel Sort

- Reorders the channels in the programme list.

Channel Edit

- Edits the channel number or the channel name.

Fine tuning

- Fine-tunes analogue channels manually when the reception is poor.

Language

Preferred Audio 1/Preferred Audio 2

- Selects the first and second preferred language for DVB multi audio (depending on the broadcaster).

Preferred Subtitle 1/Preferred Subtitle 2

- Selects the first and second preferred language for DVB subtitles (depending on the broadcaster).

Preferred Teletext

- Selects the preferred language for DVB teletext service (depending on the broadcaster).

Display Settings

Preferred Subtitle Type

- Selects the preferred subtitle type.
 - **Standard:** Provides preset subtitles (depending on the broadcaster).
 - **Hearing Impaired:** Provides aids in understanding and enjoyment with DVB subtitles (depending on the broadcaster).

Banner Display Timeout

- Sets how long the Information banner stays on screen.

HDMI Control

First, please connect your TV to a HDMI compliant device.

- TV will be turned on and display the previous viewed input source, when the connected HDMI compliant device is switched on.
- Connected HDMI compliant device will be switched to standby when TV turns to standby mode.

System Menu

Shipping Condition

- Resets all settings, for example, when moving house.

OAD

- Turns OAD function **On** or **Off**.

Auto Download

- Downloads new software by air automatically.

Auto Install

- Installs new software automatically

Manual OAD

- Upgrades software by air manually.

System Information

- Displays the system information of this TV.

Software License

- Displays the software license information of this TV.

Child Lock

- Locks a channel/AV input to prevent access to it.
- When the locked channel/input is selected, a message appears; you need to enter the PIN number to watch the restricted content.

PIN

- You need to enter the PIN when you access locked channel or inputs.
- The default PIN is 0000.

Channel Block

- Prevents children from watching certain channels.

Parental Rating

- Prevents children from watching certain TV programmes, according to the rating limit set.

Input Block

- Disables the specific external input signals.

Change PIN

- Change the 4-digit parental control PIN.

Clear All

- Cleans child lock settings.

Other Setting

Power Save

- Reduces brightness of picture to economise on power consumption.

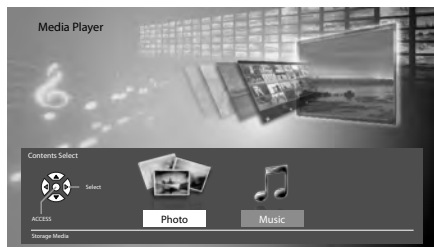
Time Zone

- Adjusts the time data.
- The time data will be corrected based on GMT.
- For TH-L24X5A model only.

Country Region

- Selects the region where you live to adjust the standard time.
- For TH-L24X5A model only.

Multi-Media



1. Inserts the USB storage device to the USB port on the TV.
2. Press **INPUT(AV)** button, and the input source list will be displayed.
3. Press **▲/▼** to select **USB**, and press **OK** button to enter multi-media content.

Note:

- Partition: FAT32, Not support NTFS format.
(FAT32—Max Partition Size: 32GB, Max File Size: 4GB)

Photo

- Browsing Photos

Buttons	Description
Red	● Play slideshow.
Green	● Selects viewing type.
Yellow	● Selects Photo or Music.
Blue	● Opens option menu.
▲/▼/◀/▶	● Selects photos.

- Playing Slideshow

Buttons	Description
Blue	● Opens option menu.

Music

Buttons	Description
Blue	● Opens option menu.
Yellow	● Selects Photo or Music.
▲/▼/◀/▶	● Selects musics.

Option List

- In multi- media menu, you can press Blue colour key to select one of following options.

Viewing photos

- Transition Effect
- Photo Size
- Interval
- Repeat

Playing music

- Repeat

TROUBLESHOOTING

Before calling your dealer or service centre for assistance, check the matters below once again.

1. Make sure you have connected LCD TV to your equipment.
2. Check cable connection. Verify that all external equipment and power cords are properly connected.
3. Verify that all power is switched on.
4. If LCD TV still does not produce an image, re-start the external equipment.
5. If the image still does not appear, unplug LCD TV from the external equipment and check the external equipment. The problem may be with your graphics controller rather than with LCD TV. (When you reconnect LCD TV, remember to turn the external equipment and TV off before you power up LCD TV. Power the equipment back on in order of LCD TV and external equipment.)
6. If the problem still exists, check the following chart.

Problem	Try these Solutions
NO POWER	<ul style="list-style-type: none"> ● Plug this LCD TV into the AC outlet. ● Press POWER button on side control or on Remote Control to turn on LCD TV. ● Check POWER Indicator. If this indicator no light, this TV has getting trouble.
Remote Control does not work	<ul style="list-style-type: none"> ● Check the batteries. ● Make sure nothing is between the Remote Receiver and the Remote Control. ● Make sure you are not too far from LCD TV when using Remote Control. ● Maximum operating range is (7m and a 30 degree angle of the front of the TV). ● Is direct sunlight or strong artificial light shining on LCD TV's Infrared Remote Receiver? Eliminate the light by closing curtains, pointing the light in a different direction, etc. ● A dedicated remote control is required for this model. Basically, the remote control of other brands (including Panasonic other models) cannot be used.
No image	<ul style="list-style-type: none"> ● Check the connection between the external equipment and LCD TV. ● When turning LCD TV on, it takes a few seconds to display the image. ● Check the system that you select is corresponding with the external equipment or the video equipment. ● Make sure the temperature is not out of the Operating Temperature (0°C ~ 35°C). ● Turn off power, then turn on again, re-start LCD TV.

Problem	Try these Solutions
No sound	<ul style="list-style-type: none"> ● Check Audio cable connection from Audio input source. ● Adjust the Sound System. ● Press VOLUME (+) button. ● Press MUTE button.
There are tiny black points and/ or bright point on the TV	<ul style="list-style-type: none"> ● Dark or bright points of light (red, green, or blue) may appear on the screen. This is a characteristic of the LCD panel, not a malfunction of the LCD TV. ● LCD panel is produced with very high accuracy technology. There is 99.99% or more dot pixel, but there is also 0.01 % or less of dot pixel lack or dot pixel that is constantly lighted. This is not defect. ● Regarding LCD panel characteristic, it may occur picture remain (look like a mirror) when the screen is changed if it displays same screen for a long time. Changing the picture or turn-off the power supply may recover. ● Stripe pattern (more, interference stripes) may show up on the screen depends on the reflected picture.
Abnormal color of image	<ul style="list-style-type: none"> ● Adjust the value of color.

Warning

High voltages are used to operate this LCD TV. Do not attempt to open the cabinet.

If the problem still persists after following all operating instructions, contact the sales dealer where you purchased LCD TV or the service centre. Give the model number and explain the difficulty. We will advise you how to obtain service.

SPECIFICATIONS

		TH-L24X5A	TH-L24X5Z
Power Source		AC 220-240 V, 50Hz	
Rated Power Consumption		0.4 A	0.4 A
Standby Power Consumption		0.5 W	0.5 W
Dimensions (W × H × D)		With Pedestal: 567 mm × 406 mm × 170 mm Without Pedestal (TV only): 567 mm × 367 mm × 46 mm	With Pedestal: 567 mm × 406 mm × 170 mm Without Pedestal (TV only): 567 mm × 367 mm × 46 mm
Mass		With Pedestal: 4.5 kg Without Pedestal (TV only): 4.0 kg	With Pedestal: 4.5 kg Without Pedestal (TV only): 4.0 kg
Display panel	Aspect Ratio	16:9	
	Visible screen size	521.3 mm (H) × 293.2 mm (V) 23.5" (diagonal)	521.3 mm (H) × 293.2 mm (V) 23.5" (diagonal)
	Number of pixels	2,073,600 (1,920 (W) × 1,080 (H))	2,073,600 (1,920 (W) × 1,080 (H))
Sound	Speaker	(100 mm × 27 mm × 27 mm) × 2, 16 Ω	
	Audio Output	6 W (3 W + 3 W), 10% THD	
	Headphones	3.5mm stereo mini Jack × 1	
Receiving System/ Band name		PAL B/G Digital TV	PAL B/G Digital TV
Aerial input		VHF / UHF	
Operating Conditions		Temperature : 0 °C - 35 °C Humidity : 10 % - 90 % RH (non-condensing)	

Input Signal Compatibility Chart

COMPONENT (Y, PB, PR), HDMI

Signal name	COMPONENT	HDMI
525 (480) / 60i, 60p	○	○
625 (576) / 50i, 50p	○	○
750 (720) / 60p, 50p	○	○
1,125 (1,080) / 60i, 50i	○	○
1,125 (1,080) / 60p, 50p, 24p		○

○ Mark : Applicable input signal

PC (from D-sub terminal/ HDMI terminal)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.08
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.08
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1,024 × 768 @85 Hz	68.68	85.00
1,280 × 768 @60 Hz	47.78	59.87
1,280 × 1,024 @60 Hz	63.98	60.02
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

Applicable input signal for PC is basically compatible to VESA standard timing
Applicable input signal for PC is basically compatible to HDMI standard timing

Note:

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.
- Only HDMI 1 supports PC/DVI (co-use R/L of YPbPr RCA jack for DVI mode audio input).

Multi-media Supported Specification

Photo

Format	File extension	Image resolution (pixel)	Details / Restrictions
JPEG	.jpeg	Baseline jpeg: 4x4 to 17000 x 10000 Progressive jpeg: 4x4 to 4000 x 4000	DCF* ¹ and EXIF* ² standards Sub-sampling : 4:4:4, 4:2:2, 4:2:0

*1 : Design rule for Camera File system - unified standard established by Japan Electronics and Information Technology Industries Association (JEITA)

*2 : Exchangeable Image File - image file format used by digital cameras

Music

Codec	File extension	Restrictions
MP3	.mp3	—

Note:

- This TV also supports Dolby Digital Plus.
- Some files may not be played back even if they fulfill these conditions.
- Do not use two-byte characters or other special codes for data.
- The card may become unusable with this TV if the file or folder names are changed.

LICENSE

This product incorporates the following software or technology:

- (1) the software based in part on the work of the Independent JPEG Group,
- (2) the software developed by the Free Type Project.

Dolby



- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

HDMI



- HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Panasonic Warranty

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), introduction of sand, humidity or liquids, commercial use such as hotel, office, restaurant, or other business or rental use of the product, 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) Cabinet Part(s)
 - (b) Video or Audio Tapes
 - (c) SD cards or USB devices
 - (d) User replaceable Batteries
 - (e) DVD, Blu-ray, or Recordable Discs
 - (f) Video / Audio Heads from wear and tear in normal use
 - (g) Information stored on Hard Disk Drive, USB stick or SD card
 - (h) DTV reception issues caused by TV Aerial / Cabling / Wall socket(s)etc
5. Some products may be supplied with Ethernet connection hardware. The warranty is limited on such products and will not cover
 - (a) Internet and or DLNA connection / setup related problems
 - (b) Access fees and or charges incurred for internet connection
 - (c) The use of incompatible software or software not specifically stipulated in the product operations manual; and
 - (d) Any indirect or consequential costs associated with the incorrect use or misuse of the hardware, its connection to the internet or any other device.
6. To claim warranty service, when required, you should:
 - Telephone Panasonic's Customer Care Centre on 132600 or visit our website referred to below and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or take the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
 - Plasma/LCD televisions / displays (screen size greater than 103 cm)
7. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, 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 transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

In addition to your rights under this warranty, Panasonic products come with consumer guarantees that cannot be excluded under the Australian Consumer Law. If there is a major failure with the product, you can reject the product and elect to have a refund or to have the product replaced or if you wish you may elect to keep the goods and be compensated for the drop in value of the goods. You are also entitled to have the product repaired or replaced if the product fails to be of acceptable quality and the failure does not amount to a major failure.

If there is a major failure in regard to the product which cannot be remedied then you must notify us within a reasonable period by contacting the Panasonic Customer Care Centre. If the failure in the product is not a major failure then Panasonic may choose to repair or replace the product and will do so in a reasonable period of time from receiving notice from you.

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

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia** website **www.panasonic.com.au** or contact by phone on **132 600**
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

ACN 001 592 187 ABN 83 001 592 187

1 Innovation Road, Macquarie Park NSW 2113

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WARRANTY - New Zealand only

WE WARRANT that the Panasonic Television that you have purchased is free from defects in material and workmanship under normal home use and service.

Accordingly, we undertake to repair, or at our option, replace without cost to the owner, either for material or labour, any part which within 12 months from the date of delivery is found to be defective, provided that the appliance has been used for domestic purposes only and in accordance with the instructions given in the Instruction Book and not been subjected to misuse, neglect or installed, dismantled, repaired or serviced by any other than an authorised Panasonic New Zealand Dealer or Panasonic New Zealand Authorised Service Centre.

NOTE

- Before reporting a fault, please ensure that you read the item "Troubleshooting" in the information section of your Panasonic Instruction Book.
- It is important to retain your proof of purchase as this will be required by the serviceman or retailer as proof of purchase date, should service be required.
- In the event of service being required, contact your Panasonic New Zealand retailer or Panasonic New Zealand Authorised Service Centre.

IMPORTANT

Any request for warranty service must be through an Authorised Panasonic New Zealand Service Centre who during the period of the warranty, undertakes to make any necessary adjustment and fit any replacement part supplied by the manufacturer, during normal working hours, or alternatively will arrange for such service to be provided by some other Panasonic New Zealand Authorised Service Centre.

NEW ZEALAND

Distributed in New Zealand by Panasonic New Zealand Limited

350 Te Irirangi Drive East Tamaki, Private Bag 14911, Panmure Auckland

Tel. 09 272 0100

Customer Care Center

Email: Customerservice@nz.panasonic.com

www.panasonic.co.nz

Customer's Record

The model number and serial number of this product may be found on its rear panel. You should note the model number and the serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

Panasonic Corporation

Web Site : <http://panasonic.net>

