

Model No.

TH-L32X25A



















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

English

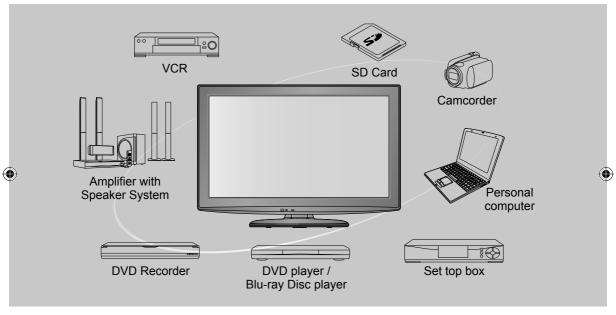
YW TQB4GC0423-1



Experience an amazing level of multimedia excitement

Receive digital terrestrial services using an integrated Digital TV tuner Sharp pictures with HDMI terminal Create home theatre and DVD recorder link-ups with "VIERA Link" without complicated settings!

Enjoy rich multimedia



Notice about Digital TV Functions

The MPEG-4 AVC feature was designed to specifications as we know them today. This
specification may be subject to future changes beyond our control that may not guarantee the
decoding of such services.

February 2010

This product is licensed under the AVC patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the AVC Standard ("AVC Video") and/or (ii) decode AVC Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a video provider licensed to provide AVC Video. No license is granted or shall be implied for any other use. Additional information may be obtained from MPEG LA, LLC. See http://www.mpegla.com.

Standard accessories

Check that you have the accessories and items shown ✓

□ Remote ControlN2QAYB000494

☐ Pedestal ⇒ p. 6





☐ Batteries for the Remote Control (2)

☐ Fall-prevention parts ⇒ p. 7

R6 (AA)

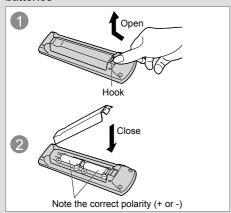


Operating
Instructions
with Warranty
statement

Caution

 This product contains possibly dangerous parts (such as plastic bags), which can be breathed in or swallowed by young children accidentally. Keep these parts out of reach of young children.

Inserting and removing remote's batteries



Caution

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

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Be sure to Read

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Quick

Basi

Advanced

Technica



Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- 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 twist the lead, bend it excessively, or stretch it.
 - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
 - Do not use a damaged mains plug or socket outlet.



Power source / Installation

- This TV is designed for:
 - AC 220 240 V, 50 / 60 Hz
 - Indoor use
 - Table-top use

Do not remove covers and NEVER modify the TV yourself

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

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 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 insert foreign objects into the TV

 Do not allow any objects to drop into the TV through the air vents. (Fire or electrical shock may result.)

Do not place the TV on sloped or unstable surfaces

The TV may fall off or tip over.

Use only the dedicated pedestals / mounting equipment

- Using an unapproved pedestal or other fixtures may make the TV unstable, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use approved pedestals (p. 6) / wall-hanging brackets (p. 7).

Do not allow children to handle SD Card

 As with any small object, SD Cards can be swallowed by young children. Please remove SD Card immediately after use and store out of reach of children.







Important Installation Notices

■ Install the TV on a stable surface

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

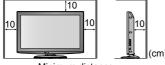
- Using cabinets or stands recommended by the manufacturer of the television.
- Only using furniture that can safely support the television.
- Ensuring the television is not overhanging the edge of the supporting furniture.
- Do not place the television on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television to a suitable support.
- Do not place 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.

■ 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 the upright position
- Allow sufficient space around the TV for radiated heat



- When using the pedestal, keep a space between the bottom of the TV and the surface where the TV is set.
- In case of using wall-hanging bracket, follow the manual of it.

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 apply strong force or impact to the display panel
 - This may cause damage resulting in injury.

■ 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.

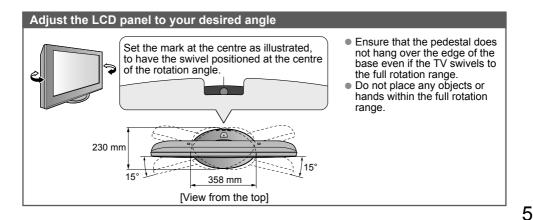
■ Keep the TV away from these types of equipment

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.





Accessories / Options

Attaching the pedestal

(Warning)

Do not disassemble or modify the pedestal.

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

Caution

Do not use the pedestal for any other TV or displays.

Otherwise the TV or the display may fall over and become damaged, and personal injury may result.
 Do not use the pedestal if it becomes warped or physically damaged.

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

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

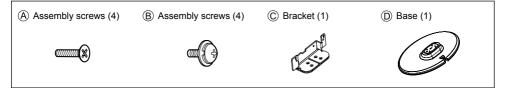
If insufficient care is taken to ensure screws are properly tightened during assembly, the pedestal
will not be strong enough to support the TV, and it might fall over and become damaged, and
personal injury may result.

Ensure that the TV does not fall over.

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

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

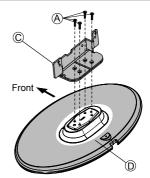
• If two or more people are not present, the TV may be dropped, and personal injury may result.



Assembling the pedestal

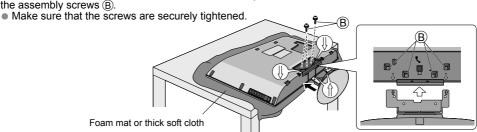
Use the assembly screws A to fasten the bracket C to the base D securely.

Make sure that the screws are securely tightened.



Securing the TV

Insert the bracket into the TV, and then fasten securely with the assembly screws (B).









Preventing the TV from falling over

This TV could fall over if it is pushed, pulled or knocked down.

We therefore recommend the TV is secured to the furniture as illustrated.

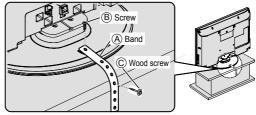
 This measure is designed to reduce the risk of injury from a falling TV. However, it cannot guarantee protection in all cases.

Fall-prevention parts



Securing to a furniture

Fix pedestal and furniture together with band.



This image is for illustrative purposes only.

Optional accessories

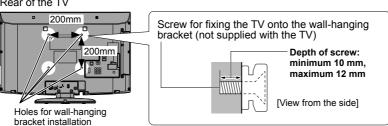
Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

Wall-hanging bracket

TY-WK3I 2RW



Rear of the TV



(Warning)

- Using other wall-hanging brackets, or installing a wall-hanging bracket by yourself carries 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 licenced 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.



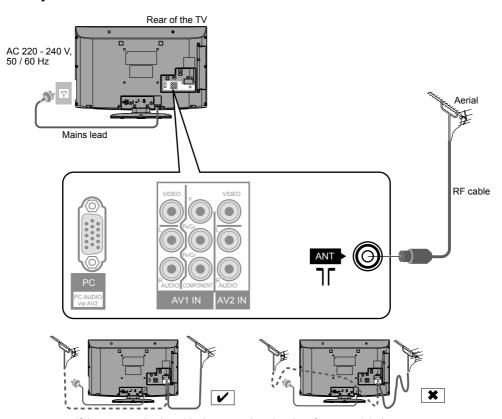


Basic Connection

External equipment and cables shown are not supplied with this TV. Please ensure that the TV is disconnected from the mains socket before attaching or disconnecting any leads.

Connecting the aerial

TV only



If the antenna is placed in the wrong location, interference might happen.

Note

- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- To obtain optimum quality picture and sound, an aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal aerial system is used, you may require the correct connection cable and plug between the wall aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct aerial system for your particular area and the accessories required.
- Any matters regarding aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.
- VIERA Link connection ⇒ p. 47
- Read the manual of the equipment, too.
- Another equipments connection ⇒ p. 52, 53

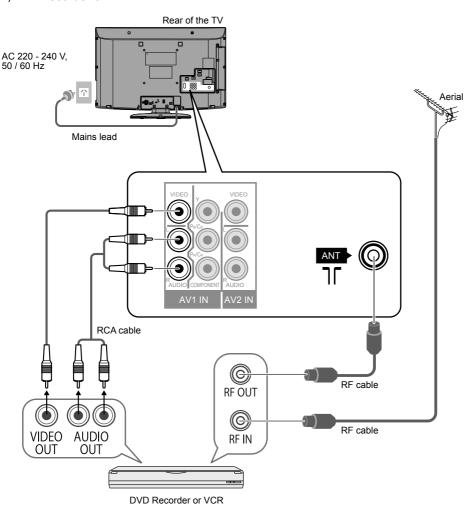






Connecting DVD Recorder / VCR

TV, DVD Recorder or VCR



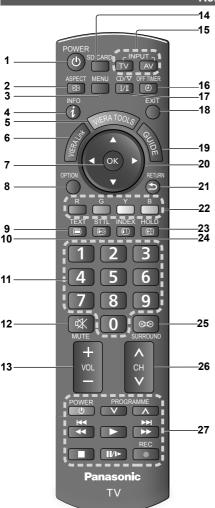






Identifying Controls

Remote control

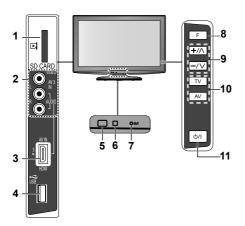


- 1 Standby On / Off switch
 - Switches TV On or Off standby
- 2 Aspect (p. 15)
 - Changes aspect ratio from Aspect Selection list
 - Pressing this button repeatedly changes aspect ratio as well
- 3 Main Menu (p. 22)
 - Press to access Picture, Sound and Setup Menus
- 4 Channel / Programme Information (p. 14)
 - Displays channel and programme information

- 5 VIERA TOOLS (p. 21)
 - Displays some special feature icons for easy access
- 6 VIERA Link (p. 47)
 - Accesses VIERÁ Link Menu
- ' Ok
 - Confirms selections and choices
 - Press after selecting channel positions to quickly change programme
- 8 Option Menu (p. 14)
 - Easy setting for viewing and sound options
- 9 Teletext (p. 17)Switches to teletext mode
- 10 Subtitles (p. 13)
 - Displays subtitles
- 11 Numeric buttons
 - Changes channel and teletext pages
 - When in Standby mode, switches TV On
- 12 Sound Mute
- Switches sound mute On or Off
- 13 Volume Up / Down
- 14 SD Card (p. 36)
 - Switches to Media Player viewing / listening mode
- 15 Input mode selection
 - TV switches to Digital TV / Analogue TV mode (p. 13)
 - AV switches to ÁV input mode from Input Selection list (p. 19)
- 16 Off Timer (p. 13)
 - Sets the time the TV automatically turns off
- 17 Stereo / Bilingual Sound Selection (p. 50)
 - Changes the sound track when more than two choices are available (Digital TV mode) (p. 14)
- 18 Exit
 - Returns to the normal viewing screen
- 19 Guide (p. 16)
 - Displays TV Guide
- 20 Cursor buttons
 - Makes selections and adjustments
- 21 Return
 - Returns to the previous menu / page
- 22 Coloured button's
 - Used for selection, navigation and operation of various functions
- 23 Hold
 - Freeze / unfreeze picture (p. 13)
 - Holds the current teletext page (teletext mode) (p. 17)
- 24 Index (p. 17)
 - Returns to the teletext index page (teletext mode)
- 25 Surround (p. 25)
 - Switches surround sound setting
- 26 Channel Up / Down
 - Selects channel in sequence
- 27 Connected equipment operations (p. 20)







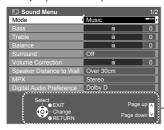
- 1 SD card slot
- 2 AV3 terminals
- 3 HDMI3 terminal
- 4 USB terminal
- Remote control signal receiver
 - Do not place any objects between the TV remote control signal receiver and remote control

- 6 C.A.T.S. (Contrast Automatic Tracking System) sensor
 - Sensés brightness to adjust picture quality when "Eco Mode" in the Picture Menu is set to "On" (p. 24)
- 7 Power LED
 - Standby: red On: green
 - When using the remote control, indicates the TV has received a command.
 - Function Select
 - Volume / Backlight / Contrast / Brightness / Colour / Sharpness / Tint (NTSC mode) / Bass ("Music" or "Speech" mode in the Sound Menu) / Treble ("Music" or "Speech" mode in the Sound Menu) / Balance / "Digital TV Auto Tuning" or "Analogue TV Auto Tuning" (p. 24 - 26)
- 9 Increases or decreases the channel position by one. When a function is already displayed, press to increase or decrease the selected function. When in standby mode, switches TV on.
- 10 Changes the input mode
- 11 Mains power On / Off switch
 - Switch On to turn on the TV or turn the TV to Standby mode by the remote control



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

Example (Sound Menu):



-Operation guide will help you.

How to use remote control



Open the Main Menu



Move the cursor / select the menu item



Move the cursor / adjust levels / select from a range of options



Access the menu / store settings after adjustments have been made or options have been set



Return to the previous menu



Exit the menu system and return to the normal viewing screen

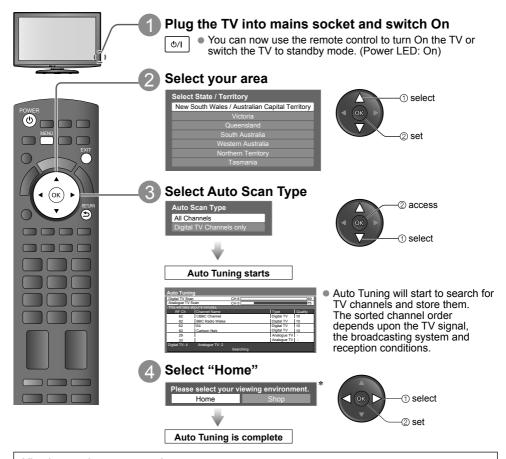




Auto Tuning

Search and store TV channels automatically.

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



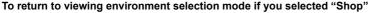
*Viewing environment mode

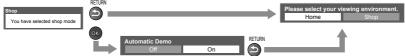
Home: Recommended mode for viewing at home. Select "Home" for optimal picture / power

consumption. "Viewing Mode" is set as "Normal" (p. 24).

Shop : Demonstration mode to explain main features of this TV (for in-store display). "Viewing

Mode" is set as "Dynamic" (p. 24).





 To change the viewing environment mode later on, reset all settings by accessing Shipping Condition. → "Shipping Condition" (p. 34)





Watching TV



Turn power on

POWER

 Mains power On / Off switch should be On (p. 11).

Select Digital TV or Analogue TV mode

It is also possible to select the mode by pressing the TV button repeatedly on the remote control or side panel controls of the TV (p. 11).

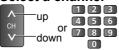


The selected mode is displayed. For details ⇒ p. 33

Information banner appears whenever you select a channel

For details ⇒ p. 14

Select a channel



- To select the two or three-digit channel number, e.g. 39
 - ⇒ 3 ⇒ 9 (in a short time)
- If one or two-digit channel number selected, pressing OK quickly changes the channel.
- To select from the Channel List -



select a channel

② watch

Note

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

Select a channel using information banner (p. 14) It is possible to confirm the programme name before selecting channels.

Display information banner if it is not displayed

INFO

While the banner is displayed. select a channel



It is possible to set display timeout in "Banner Display Timeout" (p. 26). Select a channel using TV Guide (Digital TV mode) (p. 16) It is possible to confirm the TV Guide (EPG) before selecting channels.

Display TV Guide

Select a channel



Other useful functions

Hold

Display subtitles

HOLD € E

Freeze / unfreeze picture

STTL Display / hide subtitles (if available)

Off Timer

Turn the TV off automatically after a fixed period of time (0 / 15 / 30 / 45 / 60 / 75 / 90 minutes)



Press repeatedly until the desired time appears.

- It is also possible to set the time from "Off Timer" in the Setup Menu (p. 26)
- To cancel ⇒ Set to "0" or turn the TV off.
- To display the remaining time ⇒ Information banner (p. 14)
- When the remaining time is within 3 minutes, the remaining time will flash on screen.

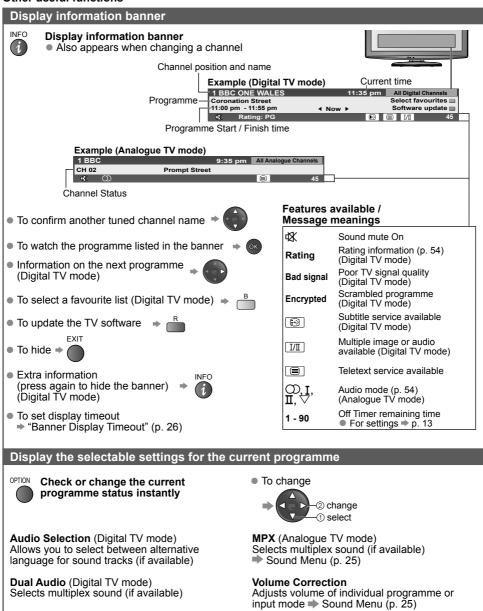






Watching TV

Other useful functions







15



Other useful functions

Change aspect ratio

Enjoy viewing the picture at its optimum size and aspect.

Display Aspect Selection list





While the list is displayed, select the mode

To change the mode using the ASPECT button only

Press repeatedly until you reach the desired mode



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



Displays the image at the standard "14:9" without distortion



Displays a "4:3" image full-screen, Stretching is only noticeable at the left and right edges.



Displays the image at the standard "4:3" without distortion.



Displays a "4:3" image enlarged horizontally to fit the screen. Digital TV mode and HD signal only



Displays a "16:9" letterbox or "4:3" image without distortion.





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





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 Digital TV mode.
- Only "16:9" and "4:3" are available in PC input mode.
- Aspect is fixed to "16:9" when "Viewing Mode" is set to "Game" in the Picture Menu.
- Not available in teletext mode.
- Aspect mode can be memorized separately for each SD (Standard definition) and HD (High definition) signals except in Digital TV mode.

Region Select Adjust the standard time

Daylight Saving Time Adjust for Summer 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).

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.

Region	Standard time	Daylight Saving Time: Auto (During Summer Time)	
NSW / ACT	+10:00	+11:00	
Victoria	+10.00	+11.00	
Queensland	+10:00		
South Australia	+9:30	+10:30	
Western Australia	+8:00		
Northern Territory	+9:30		
Tasmania	+10:00	+11:00	

(Based on GMT)

These items can be set from "Other Settings" in Setup Menu. (p. 23, 27)

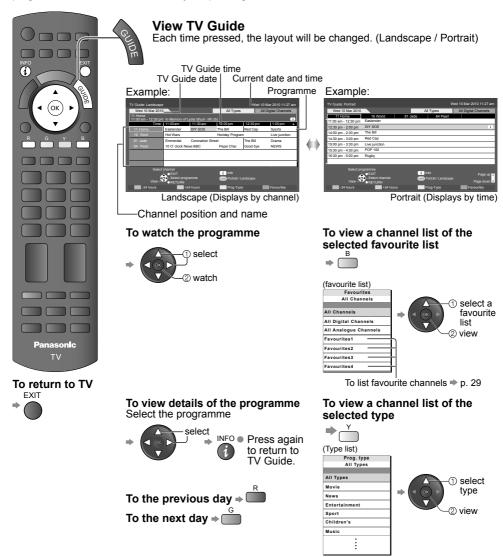
TH-L32X25A EN.indd 15 (lacktriangle)6/1/2010 10:57:52 AM





Using TV Guide (Digital TV mode)

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



Note

16

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.



Viewing Teletext

Teletext services are the text information provided by the broadcasters.

The features may vary depending on 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 corresponding coloured button. This facility enables fast access to information on the subjects shown.

What is TOP mode? (In case of TOP text broadcasting)

TOP is a particular improvement of the standard teletext service that results in an easier search and effective guide.

- Fast overview of the teletext information available
- Easy to use step-by-step selection of the topical subject
- Page status information at the bottom of the screen

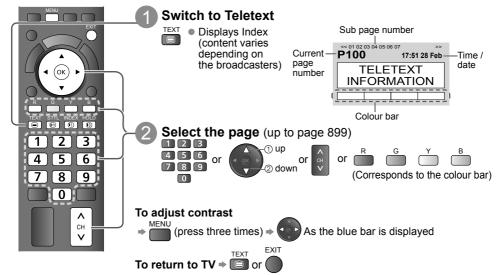
Available page up / down

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

What is List mode?

In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages" → p. 18)

To change mode ⇒ "Teletext" in Setup Menu (p. 26)



Functions (Teletext mode)

Hold	Reveal hidden data	
HOLD Stop automatic updating (If you wish to hold the current page without updating) To resume HOLD HOLD HOLD HOLD	Reveal hidden words e.g. quiz page answers To hide	
INDEX	Call up Subtitle	
Return to the main index page	STTL Display subtitles Call up P801 (subtitle page) if available. If you press this button during P801 is displayed, teletext mode will be cancelled and return to TV.	

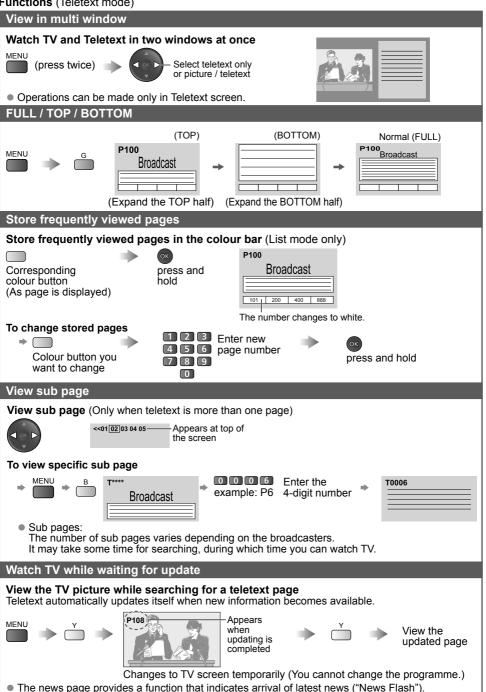






Viewing Teletext

Functions (Teletext mode)



6/1/2010 10:57:55 AM TH-L32X25A EN.indd 18

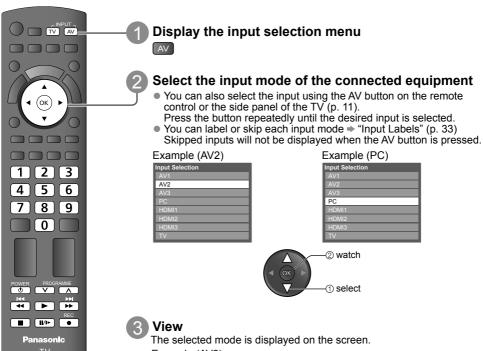


Watching External Inputs

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

To connect the equipment ⇒ p. 52, 53

The remote control is capable of operating some functions of selected external equipment. For details, see the manual of the equipment or ask your local dealer.



To return to TV

→ TV

Example (AV2)

AV2 16:9

 If the external equipment has an aspect adjustment function, set to "16:9".

Example (PC)

PC 640X480 /60Hz 16:9

- You can also listen to PC sound with an audio cable connected.
- You can setup some functions, Advanced PC Settings (p. 24) in Picture Menu and PC setup (p. 26) in Setup Menu.
- For a HDMI-compatible PC (p. 55-56), it is possible to connect to HDMI terminals (HDM1 / HDMI2 / HDMI3) by using HDMI cable.

TH-L32X25A_EN.indd 19 6/1/2010 10:57:57 AM





Watching External Inputs

Operating the equipment with the TV remote control

The equipment connected to the TV can be directly operated with the below buttons of this TV remote control.

POWER	Standby
	Set to Standby mode / Turn on
	Play Playback videocassette / DVD
	Stop Stop the operation
44	Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD/iPod: 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/iPod: Skip to the next track or title Press and hold to search forward
II/I>	Pause Pause / Resume DVD: Press and hold to play at slow speed
PROGRAMME	Programme Up / Down Select programme
REC	Record Start recording

How to change the code for each equipment

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

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

If you operate the connected equipment in VIERA Link (p. 47), select the code "73".

Press and hold Company during the following operations

Enter the appropriate code (see table below)



	,
Type of equipment	Code
DVD Recorder / DVD Player	70 (default)
Player theatre / Blu-ray Disc theatre	71
VCR	72
The equipment using in VIERA Link ⇒ "VIERA Link Control" (p. 46)	73
iPod (p. 45)	73

(Note)

- Confirm if the remote control works correctly after changing the code.
- The codes may be reset to default values if batteries are replaced.
- Some operations may not be possible on some equipment models.



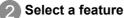




How to Use VIERA TOOLS

You can access some special features easily by using the VIERA TOOLS function.





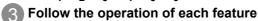
VIERA TOOLS

(ok)

To return to TV EXIT







1 VIERA Link Control

⇒ "VIERA Link Control" (p. 50)



When two or more compatible equipment is connected, a selection screen will be displayed.

Please select the correct description and access.

2 Pause Live TV

⇒ "Pause Live TV" (p. 49)



3 Photo

⇒ "Photo mode" (p. 38)



4 Video

⇒ "Video mode" (p. 40)



5 Music

→ "Music mode" (p. 42)



6 iPod

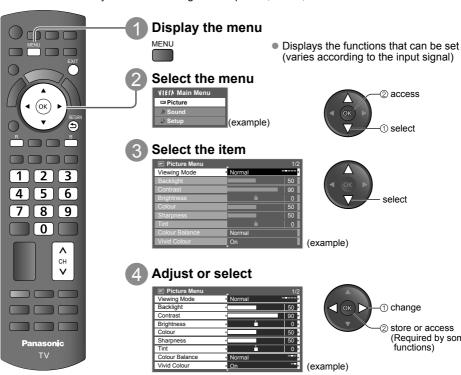


"Playing an iPod" (p. 43)



How to Use Menu Functions

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



To return to TV at any time

EXIT

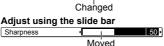
To return to the previous screen RETURN

To change menu pages



Choose from among alternatives

Number and positions of alternatives



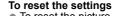
Normal

Colour Balance

Go to the next screen Digital TV Tuning Menu Access Displays the next screen

Enter characters by free input menu





select

To reset the picture settings only

store or access

functions)

(Required by some

- "Reset Picture Defaults" in Picture Menu (p. 24)
- To reset the sound settings only
- "Reset Sound Defaults" in Sound Menu (p. 26)
- To reset all settings "Shipping Condition" (p. 27)
 - in Setup Menu RETURN 1 2 3

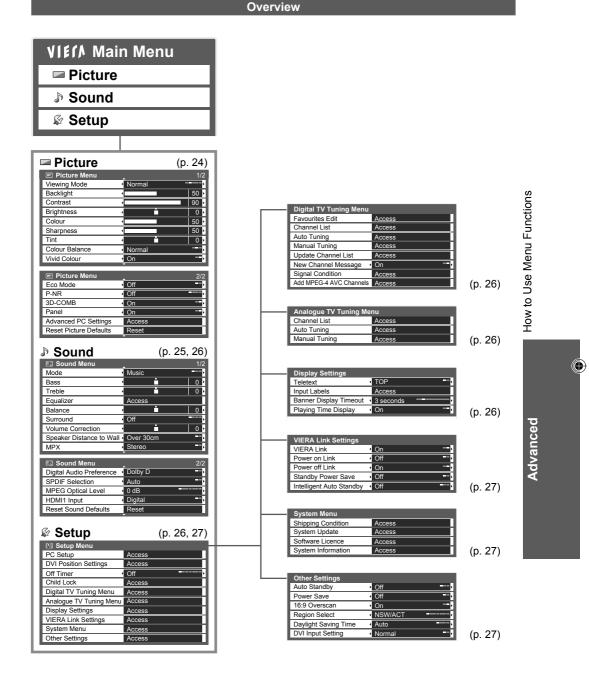
4 5 6



Every press changes the character by one. Leave it for a second to set the character, or press OK or any numeric button within a second. See the table below for the corresponding characters for each numeric button.

l	Numeric buttons	Characters	Numeric buttons	Characters
l	1	. 1!:#+-*_()	6	mno6MNO
l	2	abc2ABC	7	pqrs7PQRS
l	3	def3DEF	8	tuv8TUV
l	4	ghi4GHI	9	wxyz9WXYZ
l	5	jkl5JKL	0	Space 0





Depending on the received signals, available items are varied.





Menu list

Menu	u list			
Menu	nu Item		Adjustments / Configurations (alternatives)	
		wing Mode	Basic picture mode (Dynamic / Normal / Cinema / True Cinema / Game) In each Viewing Mode, Backlight, Contrast, Brightness, Colour, Sharpness, Tint, Colour Balance, Vivid Colour, Eco Mode, P-NR and 3D-COMB can be adjusted and stored to suit your particular viewing requirement. Set for each input signal. 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 improving the performance of contrast, black and colour reproduction True Cinema: Precisely reproduces the original image quality without any revision. Game: Fast response signal specifically to provide suitable images for playing games Not valid on TV mode A continuous record of time spent using Game mode can be displayed in the top right of the screen. "Playing Time Display" (p. 26)	
	Brig	klight, Contrast, htness, our, Sharpness	Increases or decreases the levels of these options according to your personal preference	
	Tint	:	With an NTSC signal source connected to the TV, the picture hue can be adjusted to suit your taste. • For NTSC or Component / HDMI input signal reception only	
	Colour Balance Vivid Colour Eco Mode P-NR		Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)	
Picture			Automatically adjusts colours to vivid ones (Off / On) Not valid on PC signal	
Pict			Automatically adjusts the screen brightness appropriately as the surrounding light level lowers to reduce the power consumption (Off / On) Not available in shop mode (Dynamic picture mode)	
			Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Min / Mid / Max) Not valid on PC signal	
	3D-	СОМВ	Makes still or slow moving pictures look more vivid (Off / On) Occasionally, while viewing still or slow moving pictures, colour patterning may be seen. Set to "On" to display sharper and more accurate colours. For PAL or NTSC signal reception only Not valid on Component, PC, HDMI and SD Card	
	Panel		 Turns the screen off when you select "Off" (Off / On) The sound is active even if the screen turns off. Press any buttons to turn the screen on. This function is effective in reducing power consumption when listening to a sound without watching the TV screen. 	
	ettings	R-Gain, G-Gain, B-Gain	Adjusts each gain	
	Advanced PC Settings	R-Cutoff, G-Cutoff, B-Cutoff	Cuts off each area	
	anc.	Gamma	Changes the gamma curve (1.8 / 2.0 / 2.2 / 2.4 / 2.6)	
	Reset PC Settings		Press the OK button to reset to the present Advanced PC Settings to the default.	
	Res Pict	et ture Defaults	Press the OK button to reset the present Picture Menu settings to the default.	

•





Menu	Item	Adjustments / Configurations (alternatives)
		Selects basic sound mode (Music / Speech / User)
	Mode	 The selected mode affects all input signals. Music : Improves sound quality for watching music video, etc. Speech : Improves sound quality for watching news, drama, etc. In Music and Speech mode, you can adjust "Bass" and "Treble" settings, and those settings will be stored for each mode. User : Adjusts the sounds manually by using the equalizer to suit your favourite sound quality. For the User mode, "Equalizer" will appear on the Sound Menu instead of "Bass" and "Treble". Select the "Equalizer" and adjust the frequency. → "Equalizer" (below)
	Bass	Increases or decreases level to enhance or minimise lower, deeper sound output
	Treble	Increases or decreases level to enhance or minimise sharper, higher sound output
	Equalizer	Adjusts the frequency level to suit your favourite sound quality This function is available when "Mode" is set to "User". Select the frequency and change the frequency level by using the cursor button. If you want to enhance the bass sound, raise the level of the lower frequency. If you want to enhance the treble sound, raise the level of the higher frequency. To reset the levels of each frequency to the default settings, select the "Reset Equalizer Settings" by using cursor button, and then press the OK button.
	Balance	Adjusts the volume level of right and left speakers
Sound	Surround	Surround sound settings (Off / V-Audio / V-Audio Surround / V-Audio ProSurround) V-Audio: Provides a dynamic enhancer of width to simulate improved spatial effects V-Audio Surround: Provides a dynamic enhancer of width and depth to simulate improved spatial effects V-Audio ProSurround: Provides a three-dimensional sound space with digital reverb effects Switching is also possible by the Surround button on the remote control (p. 10).
no	Volume Correction	Adjusts the volume of individual channel or input mode
S	Speaker Distance to Wall	Adjusts the low frequency sound (Over 30cm / Up to 30cm) If the back space between the TV and wall is over 30 cm, "Over 30cm" is recommended. If the back space between the TV and wall is within 30 cm, "Up to 30cm" is recommended.
	MPX	Selects multiplex sound mode (if available) (p. 54) Normally: Stereo Stereo signal cannot be received: Mono M1 / M2: Available while mono signal is transmitted Analogue TV mode only
	Digital Audio Preference	Selects the initial setting for Audio tracks (Dolby D / MPEG) If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select Dolby D: A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio. MPEG: An audio compression method that compresses audio to small size without any considerable loss of audio quality. Digital TV mode only
	SPDIF Selection	SPDIF: A standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (Auto / PCM) Auto: Dolby Digital is output as Dolby Digital Bitstream. HE-AAC and MPEG are output as PCM. PCM: Digital output signal is fixed to PCM. For Digital TV mode or Video mode (p. 40)
	MPEG Optical Level	Adjusts the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting (0 / -2 / -4 / -6 / -8 / -10 / -12dB) Normally, MPEG sound is louder comparing with the other types of audio track. Digital TV mode only









Menu		Item	Adjustments / Configurations (alternatives)	
Sound	HDM	II1 / 2 / 3 Input	Select to fit the input signal (Digital / Analogue) (p. 55).	
•	Rese Defa	et Sound ults		
		Input Resolution	Switches to a wide view ■ VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,280 × 768 pixels, 1,366 × 768 pixels) ■ Options change depending on signals	
		Clock	Set to the minimum level if noise occurs.	
	dn	H-pos	Adjusts horizontal position	
	PC Setup	V-pos	Adjusts vertical position	
		Clock Phase	Eliminates flicker and distortion • Adjust after Clock adjustment • Set to the minimum level if noise occurs	
		Sync	PC sync signal type (H & V / SOG) H & V : by the horizontal and vertical signals from your PC SOG : Sync on Green sync from your PC	
		Reset PC Settings	Press the OK button to reset the present PC Setup settings to the default.	
	ion	H-pos	Adjusts horizontal position settings of DVI	
	ting	V-pos Reset DVI	Adjusts vertical position settings of DVI	
	DVI Position Setting	Position Settings	Press the OK button to reset the present DVI Position settings to the default.	
Setup		limer	Sets the time the TV automatically goes to Standby mode (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) (p. 13)	
Ś	Chile	d Lock	Locks a channel / AV input to prevent access to it (p. 32)	
		Favourites Edit	Creates list of favourite channels (Digital TV mode) (p. 29)	
		Channel List Auto Tuning	Skips the unwanted channels or edits channels (p. 29, 31) Sets all Digital TV or Analogue TV channels automatically (p. 30, 31)	
		Manual Tuning		
	5	Update		
	Men	Channel List New Channel	Updates the channel list with keeping your settings (Digital TV mode) (p. 30) Selects whether to give a notification message when a new channel is	
	Tuning Menu	Message Signal	found (Digital TV mode) (Off / On) (p. 30)	
	2	Condition	Checks the Digital TV signal condition (p. 30)	
		Add MPEG- 4 AVC Channels	 Activates the reception of MPEG-2 and MPEG-4 AVC channels Use this function if MPEG-4 AVC services start in your area. All previous tuning setting are erased. Once activated, this option is removed from the Digital TV Tuning Menu. 	
	(0	Teletext	Teletext display mode (TOP(FASTEXT) / List) (p. 17)	
	tings	Input Labels	Labels or skips each input terminal (p. 33)	
	Display Settings	Banner Display Timeout	Sets how long the information banner stays on screen (p. 14) (0 (No display) / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 seconds)	
	Disp	Playing Time Display	Set to "On" to display a continuous record of time spent using Game mode every 30 mins (Off / On) This function is available when "Game" is selected in "Viewing Mode" (p. 24).	

(







Menu	ı İtem		Adjustments / Configurations (alternatives)
Setup		item	Adjustments / Configurations (alternatives) Sets the VIERA Link functions (Off / On)
	VIERA Link Settings	VIERA Link	 VIERA Link functions become available when "VIERA Link" is set to "On" (p. 48).
		Power on Link	Sets to use Power on Link functions (Off / On) (p. 48)
		Power off Link	Sets to use Power off Link functions (Off / On) (p. 48)
		Standby Power Save	Controls the power consumption in Standby mode of the connected equipment to reduce the power consumption (Off / On) (p. 48) This function is available when "VIERA Link" is set to "On" and "Power off Link" is set to "On".
		Intelligent Auto Standby	Makes non-watched or non-used connected equipment go into Standby mode to reduce the power consumption (Off / On (With reminder) / On (No reminder)) (p. 48) This function is available when "VIERA Link" is set to "On".
	System Menu	Shipping Condition	Resets all settings to the original condition (p. 34)
		System Update	Downloads new software to TV (p. 35)
		Software Licence	Displays the software licence information
		System Information	Displays the system information of this TV
	Other Settings	Auto Standby	Sets the time the TV automatically goes to Standby mode when no operation is performed for the selected times (Off / 2 hours / 4 hours) Inserting the SD Card to the card slot does not affect this function. Automatic input switching with the connected equipment affects this function and time-count will be reset. The notification message will appear 3 minutes before going to Standby mode.
		Power Save	Reduces brightness of picture to economise on power consumption (Off / On)
		16:9 Overscan	Selects the screen area for displaying the image (Off / On) On: Enlarges the image to hide the edge of the image Off: Displays the image in the original size Set to "On" if noise is generated on the edges of the screen. This function is available when aspect is set to "16:9". This function can be memorized separately for SD (Standard Definition) and HD (High Definition) signals.
		Region Select	Selects the region where you live to adjust the standard time (NSW / ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania) (p. 15)
		Daylight Saving Time	Select time offset from the standard time for Summer Time (Auto / Off / +1/2 hour / +1 hour) (p. 15) Set to "Auto" normally.
		DVI Input Setting	Changes the black level in the image for HDMI input mode with DVI input signal manually (Normal / Full) When the DVI input signal from the external equipment, especially from PC, is displayed, the black level may not be suitable. In this case, select "Full". The black level for HDMI input signal will be adjusted automatically.

(



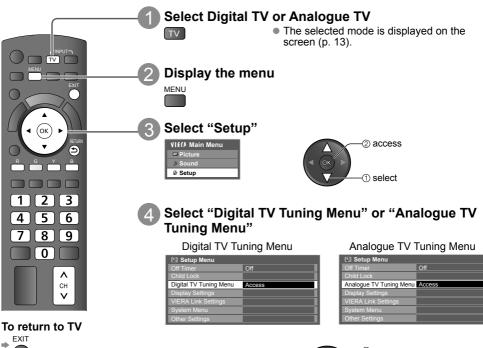
<sup>A different menu will be displayed in the mode of SD Card (p. 36 - 42).
Only available items can be selected.</sup>



Tuning and Editing Channels

You can Auto Tune, list your favourite channels and skip unwanted channels.

28



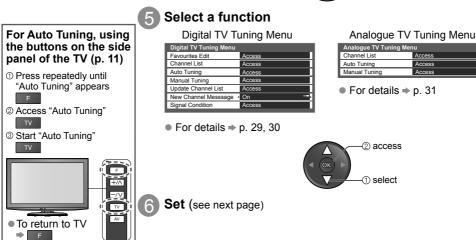
② access

OK

OK

OS

Oselect





Digital TV Tuning Menu

Favourites Edit List favourite channels

Create your favourite channel lists (Favourites) from various broadcasters (up to 4: Favourites1 to 4). The Favourites lists are available from the Information banner (p. 14) and the TV Guide (p. 16).

Select a channel to list









To display another Favourites

To add all channels to the list ⇒

A channel is added

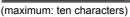
To edit List



Select the field of Favourites to edit and:

To name the Favourites → R





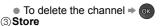


Set characters

You can set characters by using numeric buttons (p. 22).

To move the channel
 → Select the new position





To delete all channels

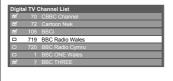


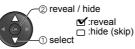
Note

- Channel numbers are defined by the broadcaster and cannot be changed.
- Hidden channels (see below) can be selected but not viewed.

Channel List Skip unwanted channels / Edit channels

Select a channel and reveal / hide





You can hide unwanted channels. The hidden channels cannot be displayed except in this function. Use this function to skip unwanted channels.

To reveal all channels ⇒ (

To retune each channel (Manual Tuning) (p. 30)

To edit channels

You can also edit each channel in Channel List.



Select a channel to edit and:



To swap the channel position (if available)
 → Enter the new position number











Digital TV Tuning Menu

Auto Tuning Set all channels automatically

Start Auto Tuning





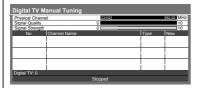
Settings are made automatically

Automatically retune all Digital TV channels received in the area.

- All the previous tuning settings are erased.
- When the operation is completed, the channel at channel position "1" will be displayed.
- Search begins in the order from the lower channels to the higher channels. Channels received during this process are added to the list (p. 29).

 If tuning has not been done completely → "Manual Tuning" (see below)

Manual Tuning Set Digital TV channel manually



Normally use "Auto Tuning" or "Update Channel List" to update Digital TV channels on your channel list. Use this function if tuning has not been completed or if adjusting the aerial direction.



• select physical channel @adjust frequency (set where the level of "Signal Quality" becomes the maximum)

 All channels found will be added to the Digital TV Channel List.

Update Channel List Update channels automatically



You can add new channels, delete duplicated channels, update channel name and position automatically to Channel List.

 Channel List is updated with keeping your settings in Favourites Edit, Channel List, Child Lock, etc.

New Channel Message Display a notification message

New channels found! Press OK to update channel list. Press EXIT to ignore.

Selects whether to give a message when new Digital TV channel is found. (Off / On)

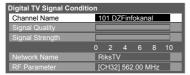
Selecting OK will perform "Update Channel List".

Signal Condition Check Digital TV signal

To change the channel

30





Selects a channel and checks the Digital TV signal condition.

A good Signal Strength is not an indication of suitable signal for Digital TV reception. Please use the Signal Quality indicator as follows:

Signal Quality:

- Green bar → Good
- Yellow bar ⇒ Poor
- Red bar ⇒ Bad (Check the aerial)

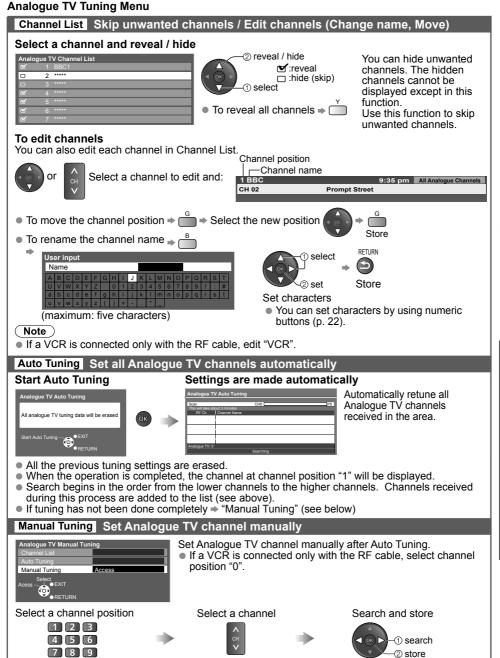
TH-L32X25A EN.indd 30 6/1/2010 10:58:07 AM





31



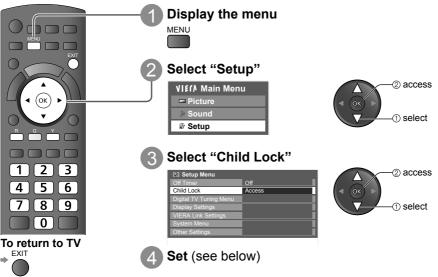


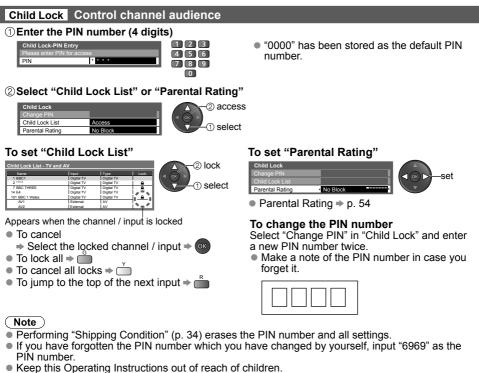


Child Lock

32

You can lock specific channels / AV input terminals and control who watches them. When the locked channel / input is selected, a message appears; by entering the PIN number, you can watch it.





33

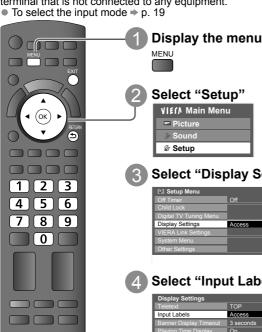
RETURN

Store



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.





Select "Display Settings"





Select "Input Labels"





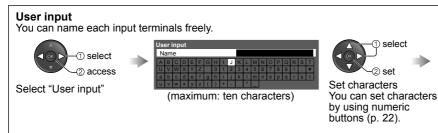
Select an input terminal and set





The labels you set will be displayed in "Input Selection" menu (p. 19)

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



Panasonic

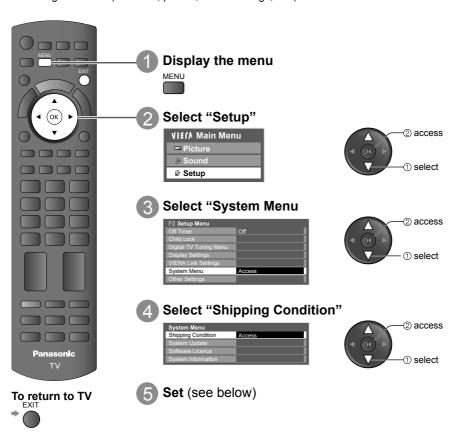
To return to TV

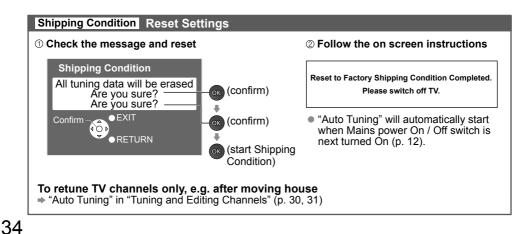
■ EXIT



Shipping Condition (Reset settings)

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







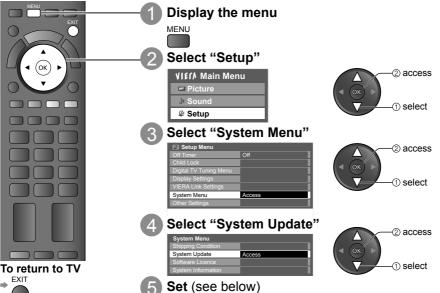
35

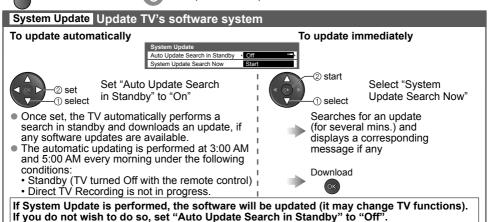


Updating the TV Software (Digital TV mode)

From time to time, a new version of software may become available for download to enhance the performance or operations of the TV. If there is an update available, a notification banner is displayed when the channel has the update information. This function is available in Digital TV mode.







(Note

Download may take about 60 mins.

 During software download and update, DO NOT switch Off the TV or press any buttons. The TV will automatically be activated after downloading is completed.

 The message might be an early notification of an update. In this case, the schedule information (the date that the new version can be used) will appear. You can set the reservation for update. The update will not start when the TV is set to Off.

 A clicking sound will occur at 3:00 AM and 5:00 AM when "Auto update Search in Standby" is set to "On". This sound is normal.

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

TH-L32X25A EN.indd 35 (lacktriangle)6/1/2010 10:58:13 AM



Using Media Player

Media Player allows you to enjoy photos, video or music stored on an SD Card and a USB Flash Memory. VIERA IMAGE VIEWER is the function of the easy viewing for photos or videos recorded on an SD Card on the TV screen by simply inserting into the SD card slot.

Photo mode: Still pictures recorded by digital cameras will be displayed.

Video mode: (For SD Card or USB Flash Memory) Moving pictures recorded by digital video cameras will be played back.

Music mode: Digital music data will be played back.

"Date" shows the date on which the recording was made by the recording equipment. The file without record of the date is shown "**/**/***

Data format for SD Card / USB Flash Memory 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)
 - Image resolution 160 × 120 to 20,000,000 pixels : SD-Video Standard Ver. 1.2 [MPEG-2 (PS format)] and AVCHD Standard compatible files with an audio format that is either MPEG-1/Layer-2 format or Dolby Digital format
- (A modified data with a PC may not be displayed correctly.)
- Music : Data format MP3 and AAC (Copy-protected files cannot be played back.)
- SD Card format : SDXC Card - exFAT

SDHC Card / SD Card - FAT16 or FAT32

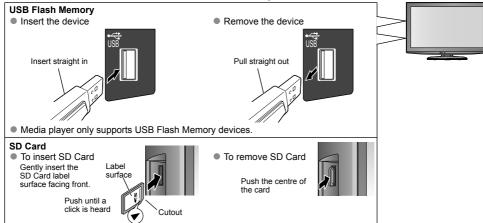
- Compliant card type (maximum capacity): SDXC Card (64 GB), SDHC Card (32 GB), SD Card (2 GB), miniSD Card (2 GB) (requiring miniSD adapter)
- If miniSD Card is used, insert / remove it together with the adapter.
- Check the latest information on the card type at the following website. (English only) http://panasonic.jp/support/global/cs/tv/
- USB Flash Memory format : FAT16, FAT32 or exFAT

*DCF (Design rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

(Note)

- Format the media device with the recording equipment.
- The picture may not appear correctly on this TV depending on the recording equipment used.
- Display may take some time when there are many files and folders.
- This function cannot display Motion JPEG and still image not JPEG formatted (i.e. TIFF, BMP).
- Any data modified with a PC may not be displayed.
- Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- The folder and file names may be different depending on the digital camera or digital video camera used.
- Do not use two-byte characters or other special codes.
- The device may become unusable with this TV if the file or folder names are changed.

To insert or remove the SD Card / USB Flash Memory







Starting Media Player



NERA TOOLS

(ok)

Insert the SD Card or USB Flash Memory

 When the SD Card is inserted, switching to Media Player (Photo mode) will be done automatically. ⇒ p. 38

It is assumed the SD Card contains photos. If not, press the blue button to activate the "Contents Select" screen and select the other mode.

"Change the contents" (p. 39)

2 Switch to Media Player



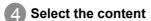
3 Select the device you want to access to





 If only one device is connected, this step will be skipped.

device name







To return to TV



- Photo * "Photo mode" (p. 38)Video * "Video mode" (p. 40)
- Music ⇒ "Music mode" (p. 42)

To return to the previous screen





You can change to the other device directly in the same mode if two devices are connected.

Display Select "Drive Select" Select the device you want to access to











(



Using Media Player

Photo mode

Photo mode will read all ".jpg" extension files in the card or USB Flash Memory.

Error display (images that could not be loaded, etc.)



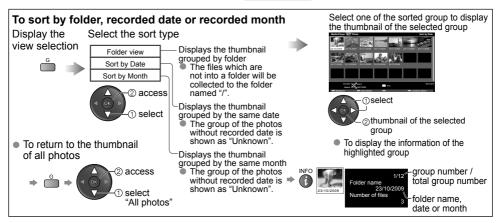
Thumbnail images of all photos on the SD Card or USB Flash Memory will be displayed.

- To change the background music
 - ⇒ "Photo Setup" (p. 39)
- To display the information of the highlighted photo





file number / total file number



Single view - Display one photo at a time. Select the photo that you want to view





- To display / hide the operation guide
 - ⇒ INFO
- To operate Single view
 - To the previous photo
 Rotate 90° (anti-clockwise)
 To the next photo
 Rotate 90° (clockwise)
- To return to thumbnail view →

Slideshow - Slideshow ends with the same thumbnail from which it started.

Select the photo that you want

Start

To display / hide the

Slideshow

Select the photo that you want to start the slideshow from

select



- To display / hide the operation guide
 - •
- To pause (returns to Single view) → OK
- To return to thumbnail view → ☐
- Picture quality may become lower depending on the slideshow settings.
- Picture setting may not work depending on the slideshow settings.







Photo Setup Setup for Photo mode











Menu	Item	Adjustments / Configuration	ns (alternatives)
		Selects the background music played during Photo	mode
	Background	(Off / Type1 / Type2 / Type3 / Auto / User)	
	Music	Type1 / 2 / 3 : Pre-installed music tracks	
	muoio	Auto: Plays music in the root folder of the SD Card	
		User : Plays music you select, refer to p. 42 for set	ting
		Selects the display frame for the slideshow (Off / N	/lulti / Collage)
	Frame	Multi : Display is divided into 9 sections in a tiled	d design
		Collage: Photos are displayed in random positions	and random scale
	Colour Effect	Selects the colour effect of photos on Single view an	d Slideshow (Off / Sepia / Gray scale)
		Selects the transition effect used when switching b	etween photos during the slideshow
Photo		(Off / Fade / Slide / Dissolve / Motion / Random)	
Setup		Fade : The next photo fades in gradually.	
	Transition	Slide : The next photo slides and appears from	the left side.
	Effect	Dissolve : The photo is replaced by an indefinite ble	ock unit.
		Motion : The photo is replaced with enlarged, red	uced, moved up or moved down.
		Random : Each transition is selected at random.	
		This function is only available when "Frame" is s	set to "Off".
	0	Selects whether to display photos in normal or enla	arged size during Single view and
	Screen Mode	Slideshow (Normal / Zoom)	
	Wiode	 Depending on the photo size, the photo may not 	t be enlarged.
	Interval	Selects slideshow interval (Short / Normal / Long)	
	Repeat	Slideshow repeat (Off / On)	

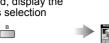
Change the contents

You can switch to the other mode of Media Player from the thumbnail.

While the thumbnail is displayed, display the contents selection

Select the contents

- Photo → "Photo mode" (p. 38)
 Video → "Video mode" (p. 40)
 Music → "Music mode" (p. 42)













Using Media Player

Video mode

For SD Card or USB Flash Memory Video mode supports AVCHD and MPEG2 file formats.

Access to "Video" mode (p. 37)

Error display (titles that could not be loaded, etc.)



Thumbnails of video titles in the SD Card or USB Flash Memory will be displayed.

When a title is highlighted, preview starts (if the title supports previewing).

- To turn preview off
 - ⇒ "Video Setup" (p. 41)
- To display the information of the highlighted title







file format title number / total title number

Playback from Title view

Playback of the selected title starts. Select the title Start playback







Playback from the selected scene in the title

Playback starts from the selected scene, and runs to the end of the title. Select the title Select the scene to start playback





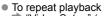


When a title is highlighted, preview starts

(if the title supports previewing). To turn preview off

⇒ "Video Setup" (p. 41)

(Thumbnail - Scene view)



⇒ "Video Setup" (p. 41)

To display the information of the highlighted scene





file format

scene number / total scene number



Operations during playback



 To display / hide the operation guide and information banner
 To change the aspect ratio (only for the 4:3 movie con) (only for the 4:3 movie content) guide and information banner

Fast forward

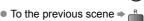
Stop

To operate the playback

ASPECT

Rewind Pause / Playback Playback

To return to thumbnail



To the next scene ⇒ ^c



RFTLIRN

Sound Settings

You can enjoy multi-channel sound by connecting an amplifier to the DIGITAL AUDIO OUT terminal

To confirm or change the current sound status (during playback) Display the Option menu Change the sound (if the movie has multiple audio signals) OPTION Option Menu
Audio Selection Ste

It may take several seconds for the changes to take effect change

(Current sound status) Audio output settings

Select "Sound" Display VIECA Main Menu the menu MENU

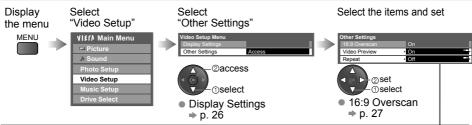






Menu	Item	Adjustments / Configurations (alternatives)
Sound	SPDIF Selection	SPDIF: Standard audio transfer file format Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (Auto / PCM) Auto: Dolby Digital is output as Dolby Digital Bitstream. MPEG is output as PCM. PCM: Digital output signal is fixed to PCM.

Video Setup Setup for Video mode



			7 p. 20
Menu	Ite	m	Adjustments / Configurations (alternatives)
Video Setup	Other Video		Sets whether to start previewing the title or scene in a thumbnail screen (Off / On) Images may not be displayed for a short time in the thumbnail screen. To resolve this problem, set preview to "Off".
		Repeat	Playback repeat within the title (Off / On)

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The structure of titles and scenes may vary depending on the digital video camera used.



Using Media Player

Music mode

Music mode supports MP3 and AAC file formats.

Access to "Music" mode (p. 37)





Error display (images that could not be loaded, etc.)





Playback starts

 To display the information of the highlighted folder or music

To playback from folder view :



Operation during playback

To display/ hide the operation guide →

To operate the playback :

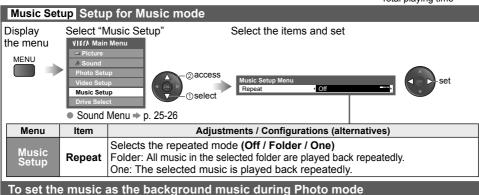


- To the previous music ⇒ ^R To the next music ⇒ ^G
- The information banner is displayed as shown below.



Elapsed time / Total playing time

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While playing music

Display the menu

Select "File" or "Folder"











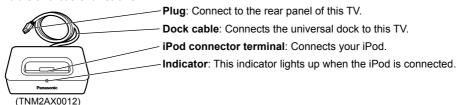


Playing an iPod on TV

You can enjoy iPod music/videos/photos on your TV, and you can also charge the battery by connecting the Universal Dock for iPod to your TV.

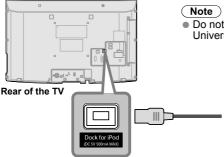
Set up Universal Dock for iPod

■ Controls and basic functions



■ Connecting the Universal Dock for iPod

Ensure that the power of this TV is switched off before you connected the Universal Dock. Connect the plug of the Universal Dock to the Dock for iPod terminal of this TV.



 Do not connect any other optional dock. (Available included Universal Dock for iPod only)

■ Connecting your iPod

Insert your iPod into the connector's terminal of the Universal Dock.



The indicator lights up when the iPod is inserted, and charging begins.

(Note)

- Panasonic has no warranty for iPod data management.
- Do not twist your iPod when inserting it or taking it off from the universal dock, and be careful not to knock over this universal dock when your iPod is inserted. Do not take off your iPod from the universal dock while you play your iPod with the TV.
- It is recommended that you update your iPod software before using it with the universal dock. The updater for the iPod software is available on the Apple website.
- Attach the dock adapter (which should be supplied with your iPod) to the dock for the stable use of the iPod. If you need an adapter, consult your iPod dealer.

■ Charging your iPod

Your iPod can be recharged while your iPod is connected to the Universal Dock.

• iPod will start recharging regardless of whether this TV is on or off (standby).

■ Disconnecting the Universal Dock for iPod

Preparation

1. Switch off the iPod.

Switch off the power of the TV.

 Pull out the plug of the Universal Dock from the Dock for iPod terminal of the TV



Playing an iPod on TV

Basic feature

■ Feature

• You can enjoy music/videos/photos on your iPod on the TV screen.

■ Available modes for your iPod TV control mode (Music/Video/Podcasts)

You can operate your iPod through the TV screen using TV remote control. (p. 45)



Remote mode (Remote)

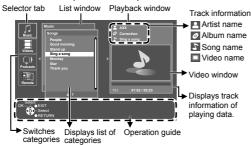
You can operate your iPod through the iPod screen using either TV remote control or the iPod itself. (p. 46)



 Remote mode lets you view videos (Camera Videos) recorded by iPod nano 5G Videos Camera function.

■ iPod menu feature

iPod viewer (Main screen)



Full screen (Only for video playback)



Video information

■ Compatible iPod models

iPhone			iPod			iPod nano				iPod mini					
3GS	3G	iPhone	touch (2G)	touch (1G)	classic	5G (video)	Photo/4G (colour display)	4G	5G (video camera)	4G (video)	3G (video)	2G (aluminium)	1G	2G	1G
16GB 32GB	8GB 16GB	4GB 8GB 16GB	8GB 16GB 32GB 64GB	8GB 16GB 32GB	80GB 120GB 160GB	30GB 60GB 80GB	20GB 30GB 40GB 60GB	20GB 40GB	8GB 16GB	8GB 16GB	4GB 8GB	2GB 4GB 8GB	1GB 2GB 4GB	4GB 6GB	8GB 16GB

- Compatibility depends on the software version of your iPod.
- For the iPod Touch/iPhone only music/video/photo services can be enjoyed on this TV.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc.

"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.









Playing an iPod on this TV

Preparations

- Set up iPod Universal Dock for iPod (p. 43).
- Before connecting/disconnecting the iPod, turn the TV off or reduce the volume of the TV to its minimum.
- Use the menu on your iPod to select the appropriate video/photo output settings for your TV. (Refer to the operating instructions of your iPod.)



Display main window

Connect your iPod (not included) firmly







Select iPod icon in VIERA TOOLS (p. 21)



Select the category in Selector tab



Press to exit from a menu screen



Press to return to the previous screen

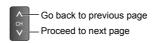






Select track in List window and play





Full screen (Only for video playback)



- To display / hide the operation guide → INFO
- To change the aspect ratio (during Full Screen mode only)
 - → (16:9 / 4:3 Full)
- For more information, refer to the operating instructions for iPod.
- To activate the TV remote control buttons for iPod, set remote control code to "73" (> p. 20)







Playing an iPod on TV

■ Available TV remote control buttons

	Play Stop		Set/Access	
			Return to previous menu	
H4	One press : Skip reverse Press and hold : Reverse	EXIT	Exit	
>>	One press : Skip forward Press and hold : Forward	MUTE	Mute	
11/1>	Pause	+		
	Move the cursor/Select	VOL _	Volume up / down	

Remote mode

① Select "Remote"



Screen will be switched when "Remote" is selected.

2 Operate

Operate your iPod through the iPod screen using either TV remote control or the iPod.



For iPod with touch screen, please use the touch screen to operate it.

To go back to iPod menu





iPod Settings Setup for iPod

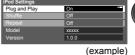
In @

1 Display





2 Select the item and adjust





■ Adjust the picture

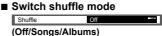


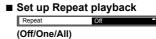
iPod Settings

②change -①select

example :Picture menu Picture menu/Sound menu (p. 24, 25) ■ Set automatic launch









select









VIERA Link Functions

VIERA Link "HDAVI Control™"

Enjoy additional HDMI interoperability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 5" function.

Connections to the equipment with HDMI cable such as DIGA Recorder, HD Video Camera, Player theatre, Amplifier, etc., allow you to interface them automatically.

These features are limited to models incorporating "HDAVI Control" and "VIERA Link"

- Some functions are not available depending on the equipment's version of HDAVI Control. Please confirm the connected equipment's version of HDAVI Control.
- VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.
- Please refer to individual manuals for the equipment. About applicable Panasonic equipment, consult your local Panasonic dealer.

Summary of features

Connected equipment with VIERA Link function	DIGA Recorder*1	DVD Player / Blu-ray Disc Player*1	HD Video Camera / LUMIX Camera*1	Player theatre*2	Blu-ray Disc theatre*2	Amplifier*2
Channel download	○*4	_	-	-	-	-
Easy playback	0	0	0	○*7	O*7	1
Power on link	0	0	0	0	0	-
Power off link	0	0	0	0	0	0
Reduce unnecessary power consumption in standby	○*5	○*5	-	-	O*5	-
Auto standby for unnecessary equipment	O*3	○*3	_	○*3 *8	○*3 *8	O*3
Pause Live TV programme	O*4 *6	-	-	_	_	-
Direct TV Recording	O*4	-	_	-	_	-
Control the menu of the connected equipment by VIERA remote control	○*3	○*3	O*3	○*3	O*3	-
Speaker control	_	_	_	0	0	0

- *1: HDMI Connection only
- *2: HDMI and Audio out connections
- *3: available with the equipment which has "HDAVI Control 2 or
- *4: available with the equipment which has "HDAVI Control 3 or later" function
- *5: available with the equipment which has "HDAVI Control 4 or later" function

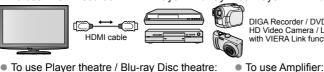
Speaker system

VIERA Link function

- *6: available with DIGA Recorder which has HDD
- *7: while playingback a disc
- *8: except for watching a disc

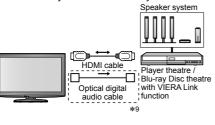
Connection

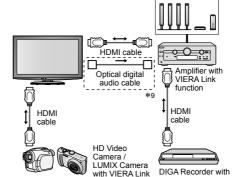
• To use DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera



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

• To use Player theatre / Blu-ray Disc theatre:





function

*9: If the connected equipment has "HDAVI Control 5" function, you do not have to use this audio cable (Optical digital audio cable). In this case, connect the equipment to the TV's HDMI2 terminal via an HDMI cable.

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VIERA Link Functions

Note

- This function may not work properly depending on the connected equipment.
- For DIGA Recorder / DVD Player / Blu-ray Disc Player / HD Video Camera / LUMIX Camera with VIERA Link function, connect to HDMI1, HDMI2 or HDMI3 terminal via an HDMI cable.
- For Player theatre / Blu-ray Disc theatre / Amplifier, connect to HDMI1, HDMI2 or HDMI3 or terminal via an HDMI cable and/or the optical digital audio cable for audio output from the TV.

• RP-CDHS50 (5.0 m)

- Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilized.
 - Recommended Panasonic's HDMI cable part number: • RP-CDHS30 (3.0 m) • RP-CDHS15 (1.5 m)

Preparations

- Connect the equipment supporting VIERA Link.
- Set up the connected equipment. Read the manual of the equipment.
- For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.
- Set VIERA Link On in Setup Menu ⇒ "VIERA Link" (p. 27)
- Set up the TV → After connection, turn the equipment on and then switch the TV on. Set the input mode to HDMI1, HDMI2 or HDMI3 (p. 19), and make sure that an image is displayed

This setup should be done each time when the following conditions occur:

for the first time
 when adding or reconnecting equipment
 when changing setup

Features available

Channel download

Channel setting can be downloaded to the recorder.

Easy playback

Automatic input switching - When the connected equipment is operated, input mode is switched automatically.

Power on link

Set Power on Link "On" in Setup Menu to use this function ⇒ "Power on Link" (p. 27) When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when the TV is in Standby mode.)

Power off link

Set Power off Link "On" in Setup Menu to use this function → "Power off Link" (p. 27) When the TV is set to Standby mode, the connected equipment is also automatically set to Standby. This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

Standby Power Save Reduce unnecessary power consumption in standby

Set Standby Power Save "On" in the Setup Menu to use this function

⇒ "Standby Power Save" (p. 27)

The power consumption in Standby mode of the connected equipment is controlled higher or lower in synchronization with the TV On / Off state to reduce the consumption.

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

- This function is effective if the connected equipment can change the power consumption in Standby mode and is set to higher consumption.
- This function will work when "Power off Link" is set to "On".

Intelligent Auto Standby Auto standby for unnecessary equipment

Set Intelligent Auto Standby "On (With reminder)" or "On (No reminder)" in the Setup Menu to use this function → "Intelligent Auto Standby" (p. 27)

When the TV is On, non-watched or non-used connected equipment goes into Standby mode automatically to reduce the power consumption. For example, when the input mode is switched from HDMI, when Speaker Selection is changed to "TV" (except for watching a disc).

- If you select "On (With reminder)", the on screen message will be displayed to be noticed before working this function.
- This function may not work properly depending on the connected equipment. If required, set to







Features available (Using VIERA Link Menu)

Pause Live TV Pause Live TV programme

Access and pause the live TV programme

You can pause the live TV programme and resume later.

Live TV programme will be recorded on the HDD of the connected DIGA Recorder.

- This function is available with DIGA Recorders which have a HDD.
- If you connect several recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder which has HDD to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, in this case connect DIGA Recorder which has HDD to HDMI1.
- If you cannot operate, check the settings and the equipment connections

⇒ "Summary of features", "Connection", "Preparations" (p. 47, 48)

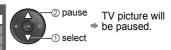


Display "VIERA Link Menu"



Select "Pause Live TV" and pause





- You can also access Pause Live TV by using VIERA TOOLS. ⇒ p. 21
- Live TV programme is recorded on HDD from where it was paused.
- If the paused TV picture disappears after a few minutes
 - (the paused picture will be restored)

To operate Pause Live TV



 Operations may be different depending on the recorder. In this case, follow the operation guide or read the manual of the recorder.

To return to Live TV (stop playback of Pause Live TV / cancel pause)





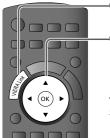
If you stop playback or cancel pause, the recorded programme will be deleted from HDD.

Direct TV Rec Direct TV Recording - What you see is What you record

Recording the current programme in DIGA Recorder immediately.

- If you connect a variety of recorders including other manufacturers' recorders at the same time, please connect DIGA Recorder to the TV's lower HDMI terminal number. For example, if you use HDMI1 and HDMI2 for two recorders, in this case connect the DIGA Recorder to HDMI1.
- If you cannot operate, check the settings and the equipment connections

⇒ "Summary of features", "Connection", "Preparations" (p. 47, 48)



-① Display "VIERA Link Menu"

② Select "Direct TV Rec" and start recording





To stop recording

Select "Stop" in "Direct TV Rec" and stop recording

(lacktriangle)









VIERA Link "HDAVI Control™"

Features available (Using VIERA Link Menu)

VIERA Link Control Operate the connected equipment with VIERA remote control

Access and operate the menu of the equipment

You can control some functions of the connected equipment with this TV remote control by pointing at the TV's signal receiver.

- If you cannot operate, check the settings and the equipment connections
- "Summary of features", "Connection", "Preparations" (p. 47, 48)
- For details of the operations of the connected equipment, read the manual of the equipment.



-1 Display "VIERA Link Menu"



Select "VIERA Link Control"
VIERA Link Menu





③ Select the equipment you want to access

The type of the connected equipment is displayed. Select the type of the equipment and access.





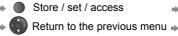
Recorder / Player / Home Cinema / Video Camera / LUMIX / Digital Camera / Other

- You can also access VIERA Link control by using VIERA TOOLS. ⇒ p. 21
- The displayed item may vary depending on the connected equipment.
- "Home Cinema" means Home theatre.
- "Other" means Tuner set top box.

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

- Operate the connected equipment
 - 1. Set the remote control code to "73" (p. 20)
 - 2. Follow the operation guide

To display the operation guide Move the cursor / select the menu ⇒



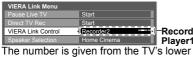


Move the cursor / access / adjust → Exit the menu When the key words are displayed on colour bar ⇒ R S Y B



Some operations may not be available depending on the equipment. If so, use its own remote control.

If multiple recorders or players are connected



➡⊡Recorder1-3 / Plaver1-3

HDMI terminal number connected to the same type equipment. For example, two recorders to HDMI2 and HDMI3, in this case the recorder connected to HDMI2 is displayed as "Recorder1", and the recorder connected to HDMI3 is displayed as "Recorder2".

If you access non-VIERA Link equipment

When the equipment with "HDAVI Control" function is connected

VIERA Link Menu VIERA Link Control

Type of the connected equipment is displayed.

You can access the menu of the equipment. But you cannot operate it.

Use its own remote control to operate the equipment.



Features available (Using VIERA Link Menu)

Speaker Selection Speaker control

Access and control the speaker volume

You can control the theatre speaker with this TV remote control by pointing at the TV's signal receiver.

If you cannot operate, check the settings and the equipment connections

→ "Summary of features", "Connection", "Preparations" (p. 47, 48)



ОК





Select "Speaker Selection"





③ Set to "Home Cinema" or "TV"



Home Cinema

Home theatre or Amplifier will be automatically turned on if it is in Standby mode and the sound is from theatre speakers connected to the equipment.

Volume up / down



/Volume slide bar will be displayed when adjusting the volume of the equipment.



- The sound of the TV speakers is muted.
- When the equipment is turned off, the TV speakers will be active.

ΤV

The TV speakers are active.

Note

Panasonic

MUTE +

VOI

• If you wish to enjoy the multi-channel sound (e.g. Dolby Digital 5.1ch) via an Amplifier, connect with HDMI cable and Optical digital audio cable (p. 47), and then select "Home Cinema". If your Amplifier has "HDAVI Control 5" function, you can connect only with HDMI cable. In this case, connect your Amplifier to the TV's HDMI2 terminal.

To enjoy the sound from the DIGA Recorder in multi-channel sound, connect an HDMI cable from the DIGA Recorder to the Amplifier (p. 47).

Note

- These functions may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when input mode is switched.
- Easy playback may be available by using the remote control for Home theatre or Amplifier. Read the manual of the equipment.
- "HDAVI Control 5" is the newest standard (current as of December, 2009) 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. 27)

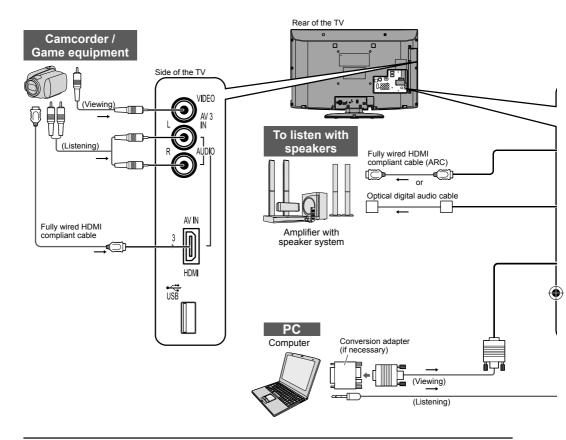






External Equipment

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. 63).



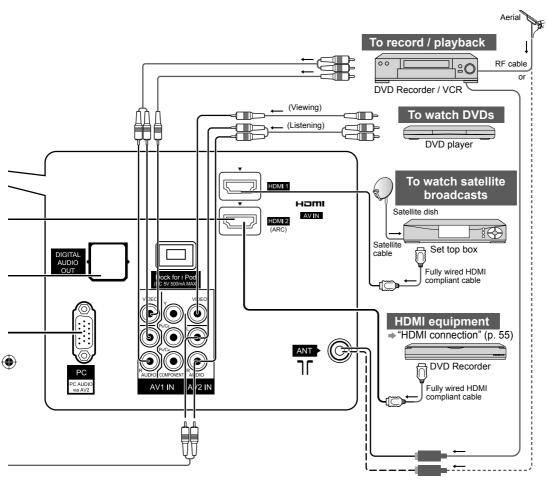
Types of connectable equipment to each terminal

Types of confidentable equipment to eac					
Terminal Recording / Playback (equipment)	AV1 IN AV2 IN AV3 IN (Side of the TV)	DIGITAL AUDIO OUT	HOMI		
(equipment)			1	2	3
To record / playback videocassettes / DVDs (VCR / DVD recorder)	0				
To watch DVDs (DVD player)	0		0	0	0
To watch camcorder images (Video camera)	0		0	0	0
To watch satellite broadcasts (Set top box)	0		0	0	0
To play games (Game equipment)				0	
To use amplifier with speaker system		Ō		O*1	
VIERA Link			0	0	

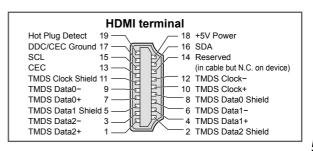
[:] Recommended Connection

^{*1:} applicable if your amplifier has ARC (Audio Return Channel) function 52





Advanced



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Technical Information

Channel Allocation (Analogue TV mode)

	CH Display / Re	ceive Channel	
CH 0 - CH 5	S 2 - S 10	CH 5A	CH 6 - CH 9
CH 9A	CH 10 - CH 12	S 11 - S 44	CH 20 - CH 75

Rating (Digital TV mode)

Rating	Meaning	Rating	Meaning	
No Block	Not classified	М	Mature	
P Pre school		MA 15+	Mature Adult 15+	
С	Children	AV 15+	Adult strong Violence 15+	
G	General	R	Restricted 18+	
PG	Parental Guidance recommended			

Stereo / Bilingual Sound Selection (Analogue TV mode)

©/▼ When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **Stereo / Bilingual Sound Selection** button.

<u> </u>		_ •		
Audio Signal	STEREO	MAIN I	SUBI	MONO
Mode Indicator	က	I	п	abla

NICAMUsed in New Zealand, Singapore, Hong Kong etc.

		ingaporo, mong mong otor			
Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO I (MAIN I)	NICAM STEREO	NICAM DUAL MONO (MAIN I / SUB II)	
Mode Indicator	No Indicator → ▽	I → ▽	$\odot \rightarrow \triangle$	I → I	

A2 (German)Used in Australia, Malaysia etc.

	Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN I / SUB II	STEREO
Mode Indicator		No Indicator ← ▽	I I	$\odot \longrightarrow \Diamond$

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO
 position, using the stereo / hillingual sound selection button
- position, using the stereo / bilingual sound selection button.

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





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HDMI connection

HDMI (high-definition multimedia interface) is the world's first complete digital consumer AV interface complying with a non-compression standard.

HDMI 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 DVD player, a set top box or a game equipment, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable. About connections, see "External Equipment" (p. 52, 53).

Applicable HDMI features

- Input audio signal: 2ch Linear PCM (sampling frequencies 48 kHz, 44.1 kHz, 32 kHz)
- Input video signal: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p
 - ⇒ "Input signal that can be displayed" (p. 56)
- Match the output setting of the digital equipment. Input PC signal
- : ⇒ "Input signal that can be displayed" (p. 56) Match the output setting of the PC.
- VIERA Link (HDAVI Control 5) : → "VIERA Link" (p. 47)
- Audio Return Channel (*2) (HDMI2 terminal only)

DVI connection

If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*3).

When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1 / 2: use AV2 audio terminals / HDMI3: use AV3 audio terminals).

If the picture position is not fit to the screen during the DVI connection, adjust the position on "DVI Position Settings" in Setup Menu (p. 26). The settings are memorized for each HDMI terminals and input signals.

(Note)

- Audio settings can be made on the "HDMI1 / 2 / 3 Input" in the Sound Menu. (p. 26)
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either "COMPONENT" or "VIDEO" to receive analogue signals.
- This TV incorporates HDMI™ technology.
- (*1): The HDMI logo is displayed on HDMI-compliant equipment.
- (*2): Audio Return Channel (ARC) is a function to be able to send digital sound signals via an HDMI cable.
- (*3): Enquire at your local digital equipment retailer shop.

PC connection

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

- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz. More than 1,024 signal lines could result in incorrect display of the image.
- A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- When using PC, set the colour display quality of PC to the highest position.
- For details of the applicable PC signals, see p. 56.
- Max. display resolution

Aspect	4:3	1,024 × 768 pixels
Aspect	16:9	1,366 × 768 pixels

D-sub 15-pin connector signal

6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R	6	GND (Ground)	11)	NC (not connected)
2	G	7	GND (Ground)	12	NC (not connected)
3	В	8	GND (Ground)	13	HD
4	NC (not connected)	9	NC (not connected)	14	VD
(5)	GND (Ground)	10	GND (Ground)	(15)	NC (not connected)

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Technical Information

Input signal that can be displayed

COMPONENT (Y, PB/CB, PR/CR), HDMI

* Mark: Applicable input signal

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

PC (from D-sub 15P)

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

PC (IIOIII D-Sub 15P)	Applicable input signal for PC is basical	ily compatible to VESA standard timing.
Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 400 @70 Hz	31.47	70.07
640 × 480 @60 Hz	31.47	59.94
640 × 480 @75 Hz	37.50	75.00
800 × 600 @60 Hz	37.88	60.32
800 × 600 @75 Hz	46.88	75.00
800 × 600 @85 Hz	53.67	85.06
852 × 480 @60 Hz	31.44	59.89
1,024 × 768 @60 Hz	48.36	60.00
1,024 × 768 @70 Hz	56.48	70.07
1,024 × 768 @75 Hz	60.02	75.03
1,024 × 768 @85 Hz	68.68	85.00
1,280 × 1,024 @60 Hz	63.98	60.02
1,280 × 768 @60 Hz	47.70	60.00
1,366 × 768 @60 Hz	48.39	60.04
Macintosh13" (640 × 480)	35.00	66.67
Macintosh16" (832 × 624)	49.73	74.55
Macintosh21" (1,152 × 870)	68.68	75.06

PC (from HDMI terminal)

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

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)
640 × 480 @60 Hz	31.47	60.00
750 (720) / 60p	45.00	60.00
1,125 (1,080) / 60p	67.50	60.00

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.

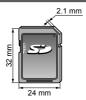






SD Card

Use an SD Card which meets SD standards. If not, it may cause the TV to malfunction.



Cautions in handling SD Card

- Do not remove the card while the TV is accessing data (this can damage card or TV).
- Do not touch the pins on the back of the card.
- Do not subject the card to a high pressure or impact.

- Insert the card in the correct direction (otherwise, card may be damaged).
 Electrical interference, static electricity, or erroneous operation may damage the data or card.
 Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the TV. (Panasonic is not liable for any deterioration or damage of recorded data.)

On screen messages			
Message	Meaning / Action		
Cannot read file	 The file is broken or unreadable. The TV does not support the format. (For the applicable formats and data, see above.) 		
Please confirm the SD card is OK	The inserted SD Card has a problem.		
No Device inserted	Confirm SD Card is inserted correctly.		
No valid file to play	The card has no data.		
This operation is not possible	Your operation is not available.		





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Maintenance

First, remove the mains plug from the socket outlet.

Display panel, Cabinet, Pedestal

For 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.
- The surface of the display panel is specially treated and may be easily damaged. 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.







FAQs

Before requesting service or assistance, please follow these simple guides to resolve the problem. If the problem still persists, please contact your local Panasonic dealer for assistance.

White spots or shadow images (noise)





 Check the position, direction, and connection of the aerial.

Neither image nor sound is produced

- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?
- Check Picture Menu (p. 24) and volume.
- Check all required cables and connections are firmly in place.

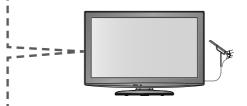
An error message appears

- Follow the message's instructions.
- If the problem persists, contact your local Panasonic dealer.

The LCD panel moves slightly when it is pushed with a finger Clattered sound might be heard

 There are some looseness around the panel to prevent the damage to the

The panel might move slightly when it is pushed with a finger, and clattered sound might be heard. This is not a malfunction.



There may be red spots, blue spots, green spots and black spots on the screen

 An image on a LCD or Plasma TV screen is created by many small groups of dots known as pixels (which is similar to the image in a newspaper). It also naturally follows that higher panel resolutions contain more pixels. To create a colour image, each pixel consists of three tiny coloured dots (known as sub-pixels), one each of red, green and blue. Each one of these dots is precisely controlled by the electronics of the TV to produce the picture. Whilst Panasonic maintains the highest standards in manufacturing technology and processes in the construction of these panels, there are a number of allowable pixel/sub-pixel failures that still allow the panel to be defined as a good panel. It is not possible to guarantee absolutely no pixel loss.









FAQs

Problem Actions Note: Digital TV reception is only as good as the antenna and the antenna cabling delivering the DTV signals to the television. Reliable digital TV reception requires high quality, robust DTV signals which can only be achieved when using a TV antenna and cabling designed for digital TV reception. Further reading please visit: http://www.digitalready.gov.au/publications.aspx where you can download 'The Digital TV Antenna Systems for Homes Handbook' information pdf file. For your safety, the antenna and cabling should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1 for Domestic installations or AS1367 for MATV installations. To maintain optimum antenna signal quality, use an 'F' type TV signal splitter (as illustrated) when connecting two or more devices to the same antenna socket. 'F' type RG6Q Fly Lead Connecting devices Antenna Splitter such as DTV recorder RG6Q Fly Lead / PVR / VCR etc that also require an DTV Recorder / PVR / VCR antenna connection to Antenna Socket Wall Plate the digital television RG6Q Fly Lead Hint: Some degradation of the DTV signal may occur if you are connecting the aerial through an external device (e.g. DVD Recorder or Set Top Box). In this case it is better to use a splitter and connect the aerial directly to both devices. Check to ensure your area is covered by DTV transmissions. Check that the aerial and antenna cable are designed for DTV reception. After digital TV tuning, If you live within 5-10 Km of DTV transmission towers, a combined VHF (or re-tuning) some or / UHF Digital TV aerial should be adequate. Outside this area, separate all DTV channels are VHF and UHF aerials provide superior reception performance. If you live in a unit or apartment, check to ensure the Master Antenna missing TV (MATV) system is designed for analogue and DTV reception. Please consult your body corporate. Check "Signal Condition" via TV Setup menu. If "Signal Quality" or "Signal Strength" are red/orange or constantly changing, check aerial/cable/ connections. If problem persists consult your local TV antenna installer. Too much signal; is "Signal Strength" always at full strength? If yes, try attenuating (reducing) the signal strength Check that the aerial and antenna cable are designed for DTV reception. The received signal may be too weak to allow the TV to reliably lock to Picture regularly the selected channel to generate a viewable picture. If problem persists pixelates on some consult your local TV aerial installer. channels, or Interference from household appliances (known as impulse noise) such as light switches, fridges etc may cause picture break up and / or audio 'No Signal' message distortion. Use high quality quad shielded coaxial cable (RG6Q) fly lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer. Antenna installation may be using an aerial amplifier that is faulty or an older style aerial amplifier that was not designed for digital TV. Older style antenna cabling, loose fitting/corroded wall socket connections/terminals etc. Electrical interference caused by local or distant lighting storms, heavy rain, high wind etc may cause picture to break up and or audio to mute/ Picture infrequently distort momentarily. pixelates on some or Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system. all channels Older style antenna cabling, loose fitting/corroded wall socket



connections/terminals etc.



	Problem	Actions		
Screen	Chaotic image, noisy	 Change the setting of "P-NR" in the Picture Menu (to remove noise). (p. 24) Check nearby electrical products (car, motorcycle, fluorescent lamp). 		
	No image can be displayed	 Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 24) 		
	Blurry or distorted image (no sound or low volume)	Reset channels (p. 30, 31).		
	Unusual image is displayed	 Turn off the TV with Mains power On / Off switch, then turn it on again. 		
	"Shop" appears on screen at switch on	 "Shop" was selected in "Auto Tuning" (p. 12) Reset settings in "Shipping Condition" (p. 34), then select "Home" in "Auto Tuning" (p. 12) 		
Sound	No sound is produced	Is "Sound Mute" active? (p. 10)Is the volume set to the minimum?		
Sou	Sound level is low or sound is distorted	Sound signal reception may be deteriorated.Set "MPX" in the Sound Menu to "Mono" (p. 25).		
HDMI	Sound is unusual	 Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 / 2 / 3 Input" setting in the Sound Menu. (p. 26) If digital sound connection has a problem, select analogue sound connection. (p. 55) 		
운	Pictures from external equipment are unusual when the equipment is connected via HDMI	 Is the HDMI cable connected properly? (p. 47, 52, 53) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 56) Use an equipment compliant with EIA/CEA-861/861B. 		
Other	TV goes into Standby mode	 Auto power function is activated. The TV enters Standby mode about 30 mins. after analogue broadcasting ends. 		
	The remote control does not work or is intermittent	 Are the batteries installed correctly? (p. 3) Has the TV been switched On? Point the remote control directly at the front of the TV (within about 7 m and a 30 degree angle of the front of the TV). Situate the TV away from sunshine or other sources of bright light not to shine on the TV's remote control signal 		

receiver.









Licence

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- VGA is a trademark of International Business Machines Corporation.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
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- Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.
- Macintosh is a trademark of Apple Inc.







Specifications

			TH-L32X25A		
	Power	rating	AC 220 - 240 V, 50 / 60 Hz 0.5	2 A	
Power	Normal (Home) mode 69 W		69 W		
Standby condition			0.23 W		
를 Aspect Ratio		t Ratio	16:9		
Display panel	Visible screen size		80 cm (diagonal) 698 mm (W) × 393 mm (H)		
Disp	Number of pixels		1,049,088 (1,366 (W) × 768 (H))		
Sound	을 Speaker		160 mm × 40 mm × 2 pcs, 8 Ω		
Sot	Audio	Output	20 W (10 W + 10 W), 10% THE)	
PC s	PC signals		VGA, SVGA, WVGA, XGA SXGA, WXGA ····· (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
			'	n of Off air broadcasts	
Poo	alvina (Svotomo /	DVB-T 7 MHz VI reception	HF / UHF (Australia) free-to-air TV broadcast	
	Receiving Systems / Band name		M.NTSC (VĆR) NTSC Playback	of NTSC tape from some PAL Video recorders from M. NTSC Video recorders (VCR) from NTSC Video recorders (VCR)	
Aeri	ial - Rea	ır	Standard Belling & Lee connector		
Ope	rating (Conditions	Temperature : 0 °C - 35 °C Humidity : 20 % - 80 % RH (non-condensing)		
		AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]	
	Input	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
		COMPONENT	Y PB/CB, PR/CR	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]	
ဟ	AV2	AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]	
na	Input	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
Ē	AV3	AUDIO L - R	RCA PIN Type × 2	0.5 V[rms]	
٦	Input	VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)	
뎙		HDMI1 - 3 Input	TYPE A Connectors	This TV supports "HDAVI control 5" function.	
Connection Terminals		PC Input	HIGH-DENSITY D-SUB 15PIN	R / G / B: 0.7 V[p-p] (75 Ω) HD / VD: TTL Level 2.0 - 5.0 V[p-p] (high impedance)	
0	Others	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic		
	Card slot		SD Card slot × 1		
		USB	USB 2.0 Type A connector × 1		
		Dock for iPod	DC 5V 500mA MAX		
Dim	ension	s (W×H×D)	798 mm × 551 mm × 217 mm (With Pedestal) 798 mm × 511 mm × 83 mm (TV only)		
Mass			11.0 kg Net (With Pedestal) 9.5 kg Net (TV only)		

 Design and Specifications are subject to change without notice. Mass and Dimensions shown are approximate.

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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 it's 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 a 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)

- (e) DVD Video, Blu-ray, or Recordable Discs
- (b) Video or Audio Tapes (c) SD cards or USB devices
- (f) Video / Audio Heads from wear and tear in normal use (g) Information stored on Hard Disk Drive, USB stick or SD card
- (d) User replaceable Batteries
- (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. If warranty service is required you should:
- Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
- Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
- 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, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, re-installation or transit.

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

Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the Trade Practices Act 1974 and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities. Feb 2010

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 contact our Customer Care Centre via the Panasonic website www.panasonic.com.au or by phone on 132 600. If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited ACN 001 592 187 ABN 83 001 592 187 Locked Bag 505, Frenchs Forest, NSW 2086

PRO-031-F11 Issue: 2.0

18-02-2010

RQA0245

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

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