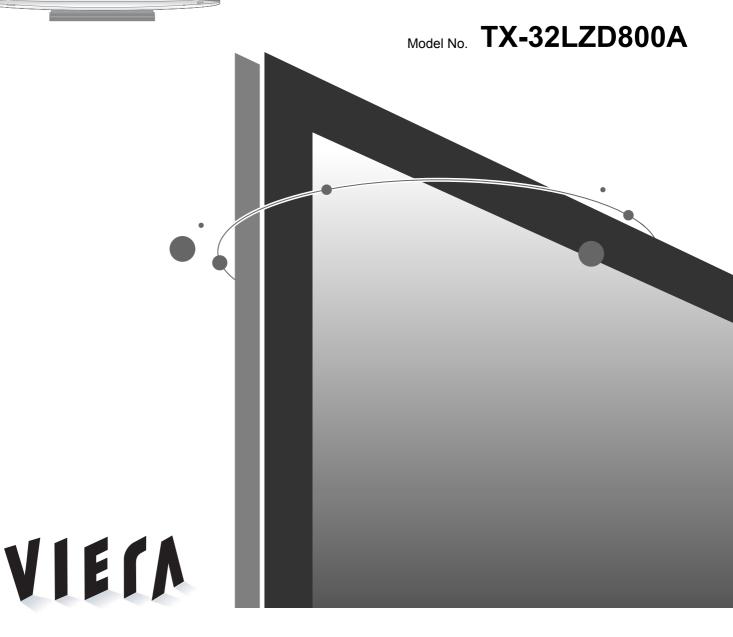


Operating Instructions LCD TV









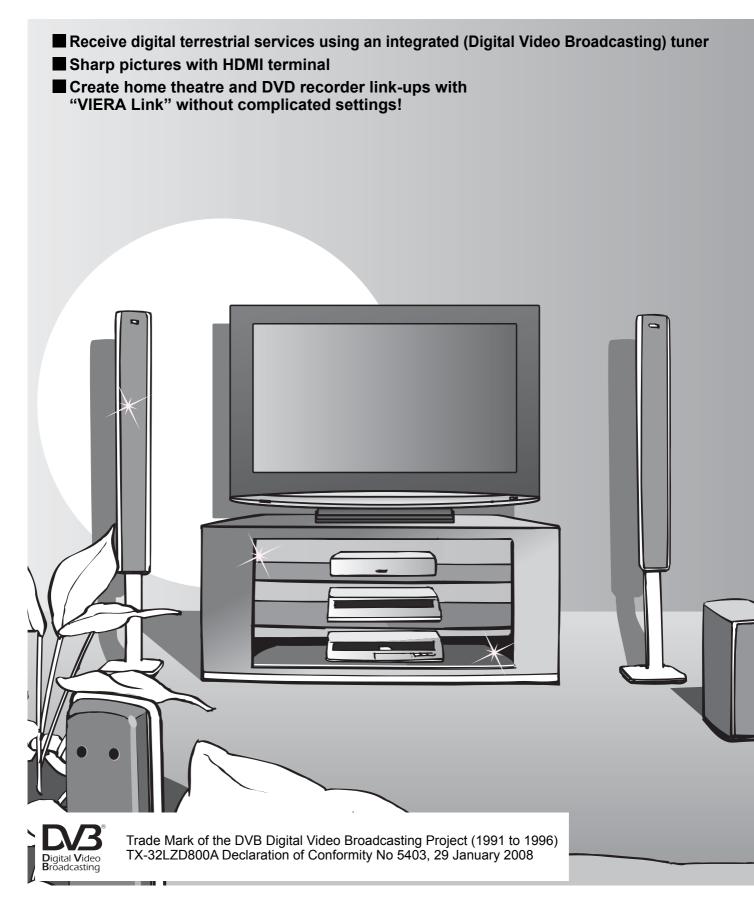




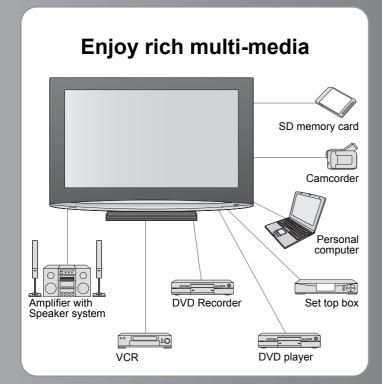
Please read these instructions before operating your set and retain them for future reference. The images shown in this manual are for illustrative purposes only.

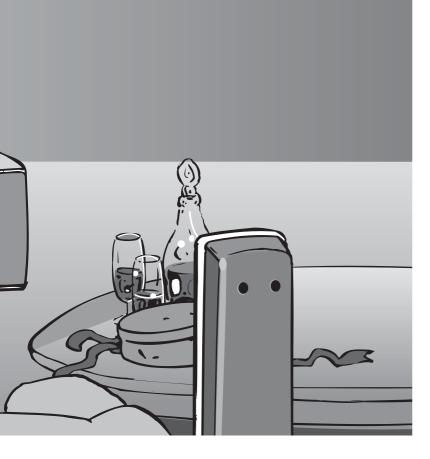
English

Turn your own living room into a movie theatre! Experience an amazing level of multi-



media excitement





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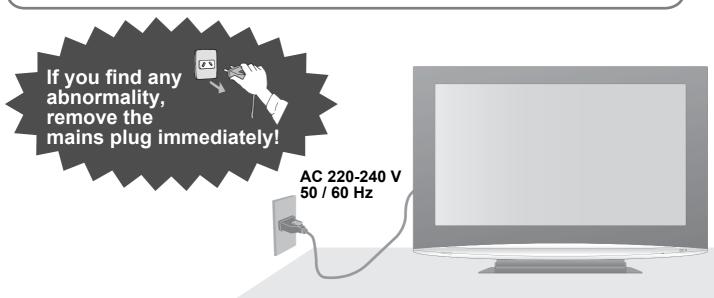
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Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- 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

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

Do not remove covers NEVER modify the TV yourself

(High-voltage components may cause serious electrical shock.)
 Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Keep liquids away from the TV

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

Do not expose to direct sunlight and other sources of heat

 Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

Do not place foreign objects inside the TV

 Do not let metal or flammable objects drop into the TV through the air vents (fire or electrical shock may result).

Do not place the TV on sloped or unstable surfaces

• The TV may fall off or tip over.

Use only the dedicated stands / mounting equipment

 Using an unauthorized stand or other fixtures may make the TV shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
 Use optional stands / mounts (p. 6).

Do not allow children to handle SD card

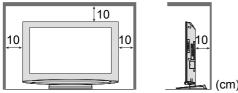
 As with any small object, SD Cards can be swallowed by young children. Please remove SD Card immediately after use and store out of reach of children.

Caution

- 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.

Allow sufficient space around the TV for radiated heat

Minimum distance



- When using the pedestal, keep the space between the bottom of the TV and the floor surface.
- In case of using Wall-hanging bracket, follow the manual of it.

Do not block the rear air vents Blocked ventilation by newspapers, table

cloths, curtains, etc. may cause overheating, fire or electrical shock.

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

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Regular care: Gently wipe the surface clean of dirt by using a soft cloth. Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or diluted neutral detergent by 100 times of water. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- The surface of the display panel has been specially treated and may be easily damaged.
- Do not tap or scratch the surface with your fingernail or other hard object.
- Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet

Regular care: Wipe the surface clean using a soft dry cloth. Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

(Caution)

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

aint).

Mains plug

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

Notes

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

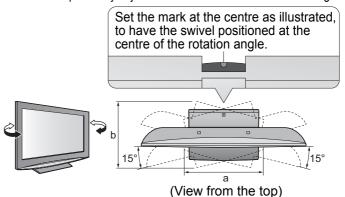
• Electronic equipment In particular, do not place video equipment near the TV (electromagnetic interference may distort images / sound).

 Equipment with an infrared sensor This TV also emits infrared rays (this may affect operation of other equipment).

Transport only in upright position

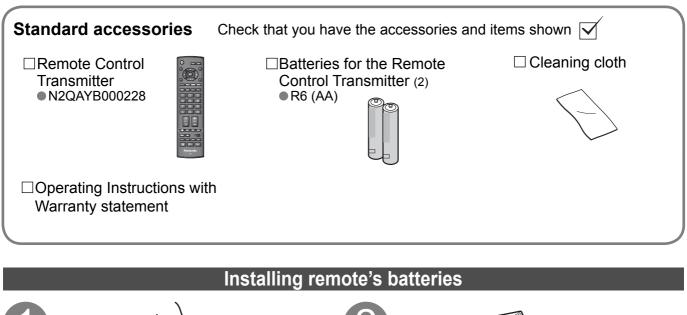
Adjust the LCD panel to your desired angle

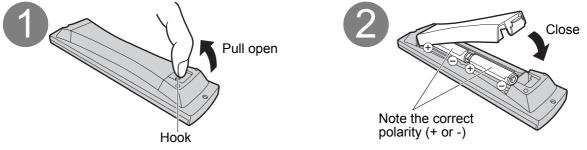
Ensure that the pedestal does not hang over the edge of the base even if the TV swivels to the full rotation range.
Do not place any objects or hands within the full rotation range.



a: 408 mm / b: 304 mm

Accessories / Options





Caution

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

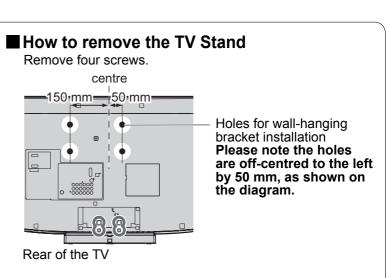
Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Optional accessories

Wall-hanging bracket • TY-WK32LR2W



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.



WARNING!

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

Basic Connection

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

Example 1 Example 2 **Connecting aerial Connecting DVD Recorder / VCR** TV only **TV, DVD Recorder or VCR** ● If your recorder is not available for DVB → p. 44 Rear of the TV Rear of the TV Aerial Aerial AC 220-240 50 / 60 Hz AC 220-240 \ 50 / 60 Hz 11 1 \ RF cable Mains lead Mains lead 5 1 බ \bigcirc 6

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.

VIDEO AUDIO OUT

OUT

DVD Recorder or VCR

Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.

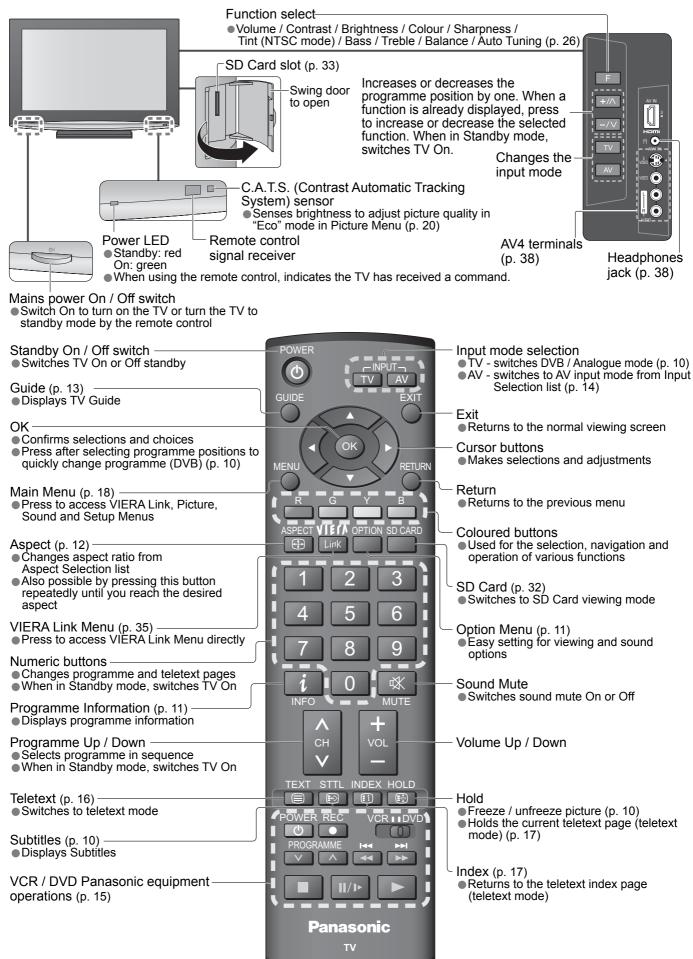
RF cable

RF cable

G RF IN G

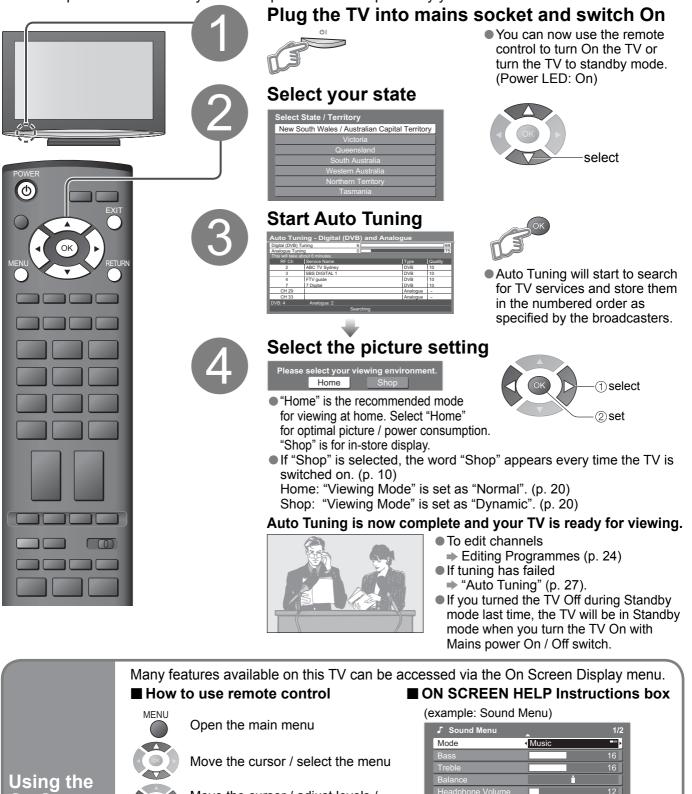
RF OUT

Identifying Controls



Auto Tuning

Search and store TV channels automatically. These steps are not necessary if the setup has been completed by your local dealer.



Move the cursor / adjust levels /

Access the menu / store settings after adjustments have been made

return to the normal viewing screen

select from a range of options

or options have been set

Return to the previous menu

Exit the menu system and

RETURN

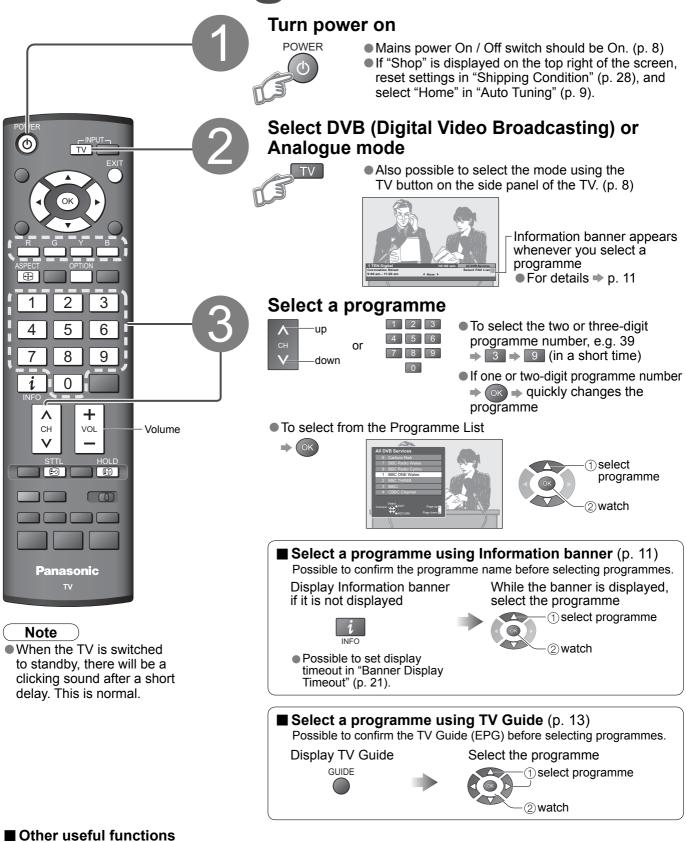
EXIT

On Screen

Displays

On-screen operation guide will help you.

Watching TV



Hold	Freeze / unfreeze picture	HOLD
Display subtitles	Display / hide subtitles (if available)● Channel changing is also possible when this	STTL STTL function is active.

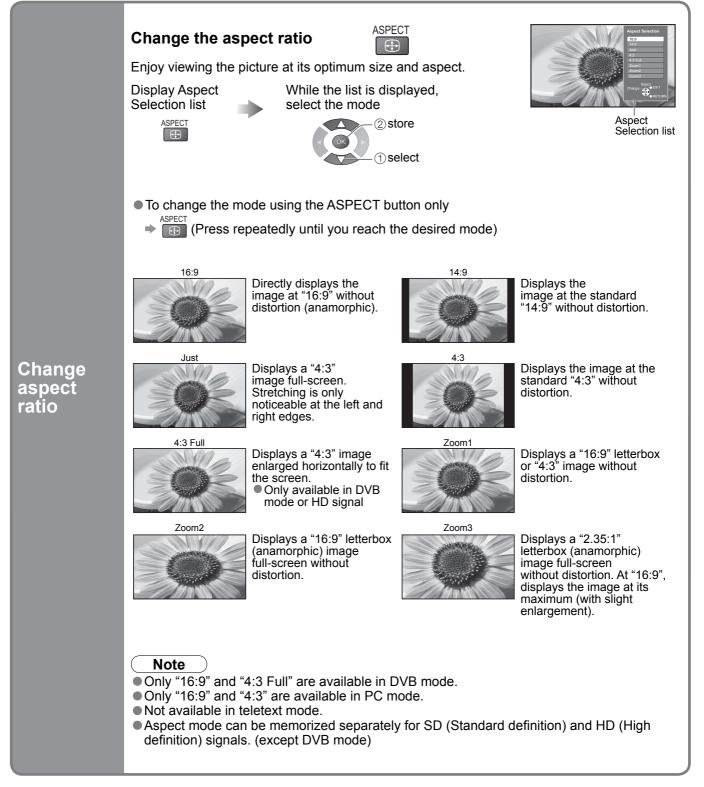
■ Other useful functions

	Display Information banner			
	Also appears when changing a programme			
	Event Programme Example: Current time 1 TEN Digital 10:30 am All DVB Services Coronation Street 9:00 am - 11:00 am Now ▶ Software update Image: PG Bad Signal Image: Programme Start / Finish time Analogue: Programme status			
Display Information banner	Features available / Message meanings Image: Provide the service available Image: Provide the service available Sound mute On Subtitle service available Image: Provide the service available Image: Provide the service available Rating: Rating information (p. 40) Image: Provide the service available Bad signal Poor TV signal quality 1 - 90 Off Timer remaining time Off Timer remaining time			
	● For settings → see below Scrambled programme			
	 To confirm another tuned programme name To change the category (To select a Fav List if you have defined) To change the category (To select a Fav List if you have defined) To change the category (To select a Fav List if you have defined) To change the category (To select a Fav List if you have defined) To download new software to TV R "System Update Search Now" (p. 23) 			
	 Information on the next event → (DVB mode) To hide → To set display timeout * "Banner Display Timeout" (p. 21) 			
	 Extra information information inform			
Display the	Check or change the current programme status instantly			
Display the selectable settings for the current programme	 MPX (Analogue mode) Sound Menu (p. 20) Volume Correction Adjusts volume of individual programme or input mode Note Also possible to change the settings in Menu list (p. 20 and p. 21). 			
	Turn the TV off automatically after a fixed period			
Off Timer	Display the select "Setup" Select "Off Timer" and set the time MENU VIEFA Link Picture Sound Sound Select "Off Timer" and set the time VIEFA Link Picture Sound Select "Select "Off Timer" and set the time			
	 To cancel ⇒ Set to "Off" or turn the TV off. To display the remaining time ⇒ Information banner (above) When the remaining time is within 3 minutes, the remaining time will flash on screen. 			

11

Watching TV

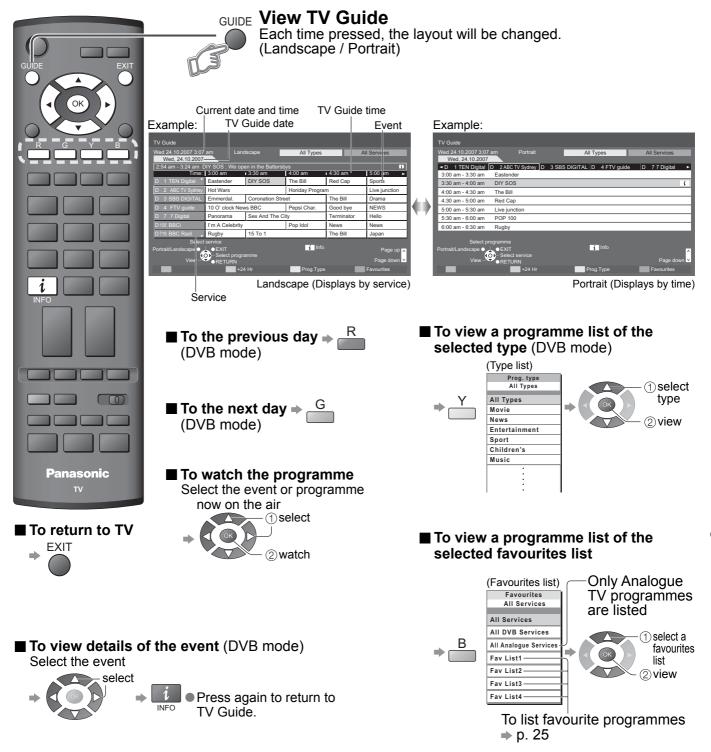
Other useful functions



Using TV Guide

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

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



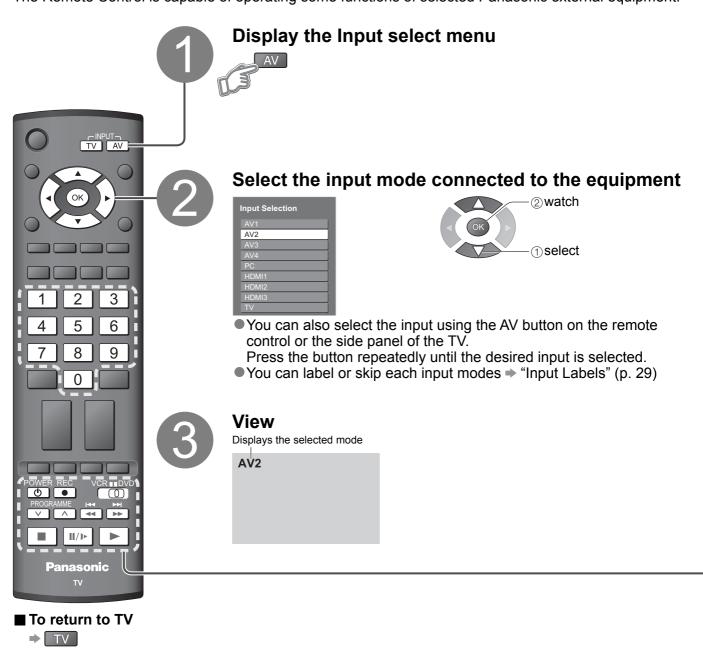
Note

 When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown. Viewing

Using TV Guid Watching TV

Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input. ● To connect the equipment ⇒ p. 7 The Remote Control is capable of operating some functions of selected Panasonic external equipment.





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

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

anasonie equipment connected to the TV can be directly operated with the remote control.			
	VCR / DVD switch* Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player home theatre		
POWER	Standby Set to Standby mode / Turn on		
	Play Playback videocassette / DVD		
	Stop Stop the operations		
i44 •••	Rewind / Skip / Search VCR: Rewind, view the picture rapidly in reverse DVD: Skip to the previous track or title Press and hold to search backward		
**	Fast-forward / Skip / Search VCR: Fast-forward, view the picture rapidly forward DVD: Skip to the next track or title Press and hold to search forward		
/▶	Pause Pause / Resume DVD: Press and hold to play at slow speed		
PROGRAMME	Programme Up / Down Select programme		
REC	Record Start recording		

*Setting your remote control to operate Panasonic VCR, DVD, etc.

① Set the VCR / DVD switch to the appropriate position → VCR ■DVD

^② Press and hold ^{POWER} during the following operations

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

"VCR" position		"DVD" position	
Equipment	Code	Equipment	Code
VCR	10 (default)	DVD	70 (default)
DVD	11	Player home theatre	71

Note

• Confirm if the remote control works correctly after changing the code.

The codes will be reset to default values if batteries are replaced.

• "DVD" means DVD player, DVD recorders and Recorder home theatre.

• Some operations may not be possible on some equipment models.

Viewing Teletext

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

What is FASTEXT mode?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

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

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

• Easy to use step-by-step selection of the topical subject

• Page status information at the bottom of the screen

Available page up / down $\Rightarrow \mathbb{R}^{\mathsf{G}}$

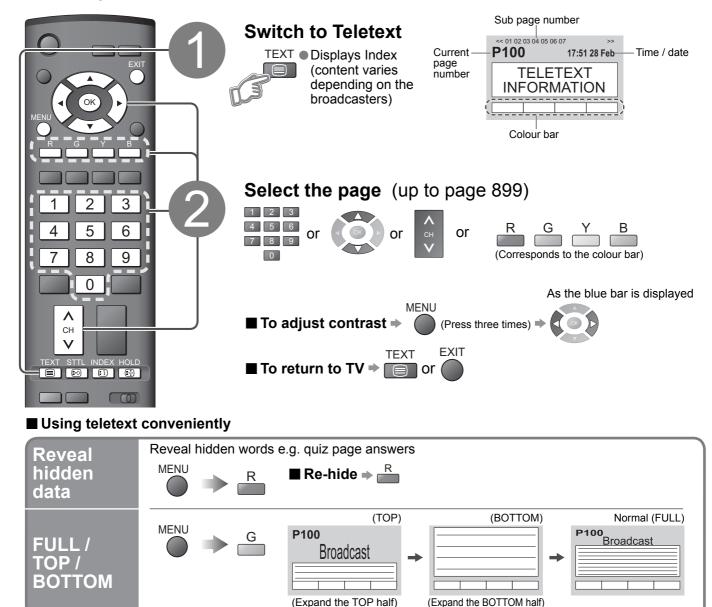
To select among subject blocks $\Rightarrow B$

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

What is List mode?

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

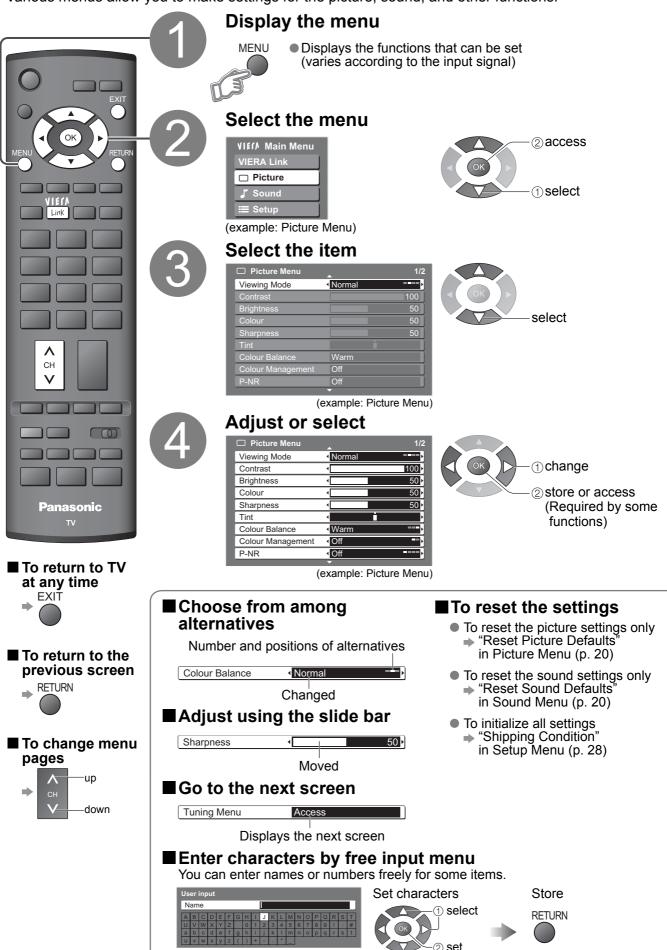
■ To change mode → "Teletext" in Setup Menu (p. 21)



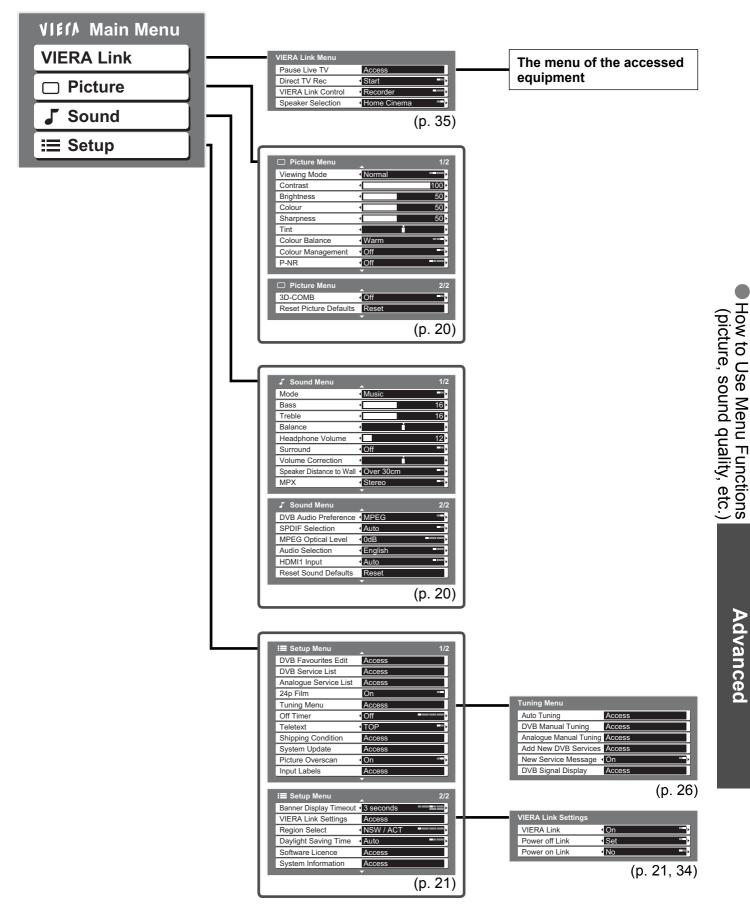
HOLD	Stop automatic updating (If you wish to hold the current page without updating) HOLD HOLD		
INDEX	Return to the main index page		
Call up subtitles	Display subtitles STTL • Call up P801 (subtitle page) if available. Image: Structure • If you press this button during P801 is displayed, teletext mode will be cancelled and return to TV.		
View in multi window	 Watch TV and Teletext in two windows at once MENU (Press twice) • Select Picture and text On or Off Operations can be made only in Teletext screen. 		
Store frequently viewed pages	Store frequently viewed pages in the colour bar (List mode only) As page is displayed Corresponding colour button To change stored pages the number changes to white. Enter new page number Colour button you want to change To change the number changes to white. Enter new page number To change the number changes to white. Enter new page number To change To change the number changes to white. Enter new page number To change To change the number changes to white. Colour button you want to change To change the number changes to white. The number change to white. The number change to white.		
View sub page	View sub page (Only when teletext is more than one page)		
Watch TV while waiting for update	View the TV picture while searching for a teletext page Teletext automatically updates itself when new information becomes available. Changes to TV screen temporarily MENU View the updating is when updating is completed (You cannot change the programme.) • The news page provides a function that indicates arrival of latest news ("News Flash").		

How to Use Menu Functions

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



Overview



Depending on the received signals, available items are varied.

How to Use Menu Functions

Menu list

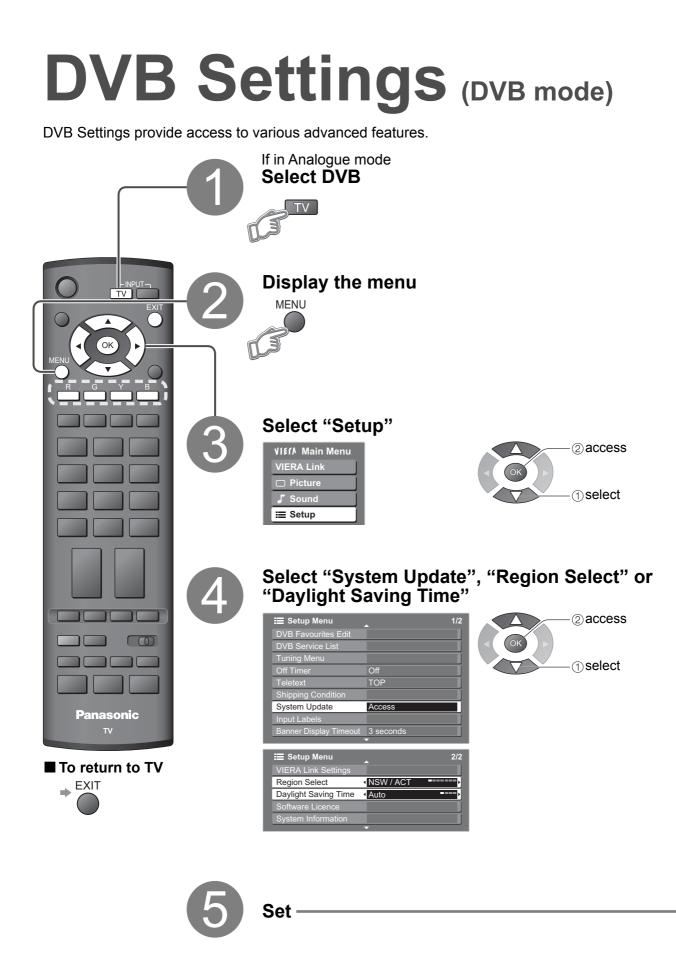
Menu	Item	Adjustments / Configurations (alternatives)			
	Pause Live TV				
VIERA Link	Direct TV Rec	Controls the connected equipment with VIERA Link function, and enables various			
Â		convenient recording, playback, etc. (p. 34 - 36) ● You can also access VIERA Link Menu directly using the VIERA Link button on the			
F	VIERA Link Control	remote control.			
k	Speaker Selection	Basic picture mode (Dynamic / Normal / Cinema / Eco)			
	Viewing Mode	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 producing a cinema-like picture Eco : Adjusts picture settings automatically dependent on ambient lighting conditions Set for each input signal			
	Contrast, Brightness, Colour, Sharpness	Increases or decreases the levels of these options according to your personal preference			
Picture	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			
ct	Colour Balance	Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)			
	Colour Management	Automatically adjusts colours to vivid ones (Off / On) Not valid on PC signal 			
Ð	P-NR	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-COMB	 Not valid on PC signal Occasionally, whilst viewing still or slow moving pictures, colour patterning may be seen Set to "On" to display sharper and more accurate colours (Off / On) For PAL or NTSC signal reception only Not valid on S-Video, Component, PC, HDMI and SD Card 			
	Reset Picture Defaults	Press the OK button to reset Viewing Mode on all inputs to default settings.			
	Mode	Basic sound mode (Music / Speech)			
	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			
	Balance	Adjusts volume level of right and left speakers			
	Headphone Volume	Adjusts the volume of the headphones			
	Surround	Surround sound settings (Off / On)			
	Volume Correction	Adjusts volume of individual programme or input mode Adjusts the low frequency sound (Over 30cm / Up to 30cm)			
	Speaker Distance to Wall	 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. 			
	МРХ	Select stereo / monaural (Mono / Stereo) (p. 41) • Normally: Stereo • Stereo signal cannot be received: Mono • M1 / M2: Available while mono signal is transmitted • Analogue mode only			
Sound	DVB Audio Preference	 Selects the initial setting for Audio tracks (Dolby Digital / MPEG) If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select Dolby Digital:A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio. MPEG:An audio compression method that compresses audio to small size without any considerable loss of audio quality. DVB mode only 			
	SPDIF Selection	Selects the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal (Auto / PCM) Auto: Dolby Digital is output as Dolby Digital Bitstream. MPEG is output as PCM. PCM:Dolby Digital is output as PCM. MPEG is output as PCM. • DVB mode only			
	MPEG Optical Level	Normally, MPEG sound is larger than Dolby Digital one You can adjust the audio level of MPEG output from DIGITAL AUDIO OUT terminal as the initial setting • 0dB to -12dB in -2dB reductions • DVB mode only			
	Audio Selection	Selects the preferred language for DVB multi audio (depending on the broadcaster)			
	HDMI1 / 3 Input	Select to fit the input signal (Auto / Digital / Analogue) (p. 31) Auto: Automatic detection of digital or analogue sound source Digital: HDMI cable connection Analogue: HDMI-DVI adapter cable connection • HDMI input mode only • HDMI2 terminal is for digital signal only • No setting for HDMI2 available			
	Reset Sound Defaults	Press the OK button to reset the present Sound Mode to the default settings			

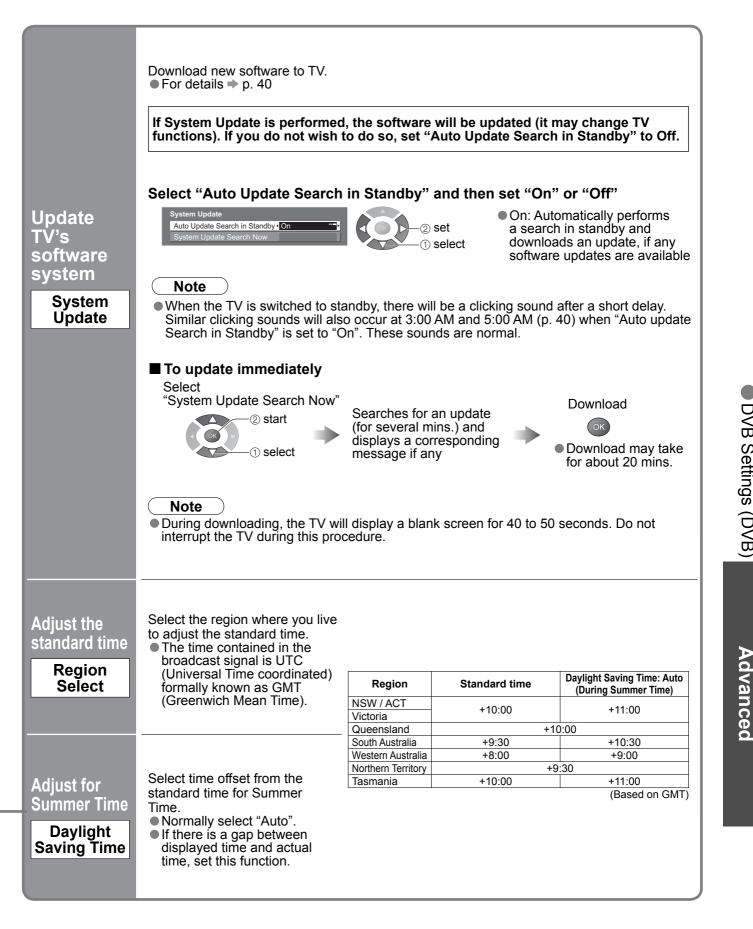
Menu list

Menu		Item	Adjustments / Configurations (alternatives)
	DVB Favourites Edit		Creates list of favourite programmes (p. 25)
		B Service List	Skips the unwanted DVB programmes (p. 25)
		alogue Service List	Skips the unwanted Analogue programmes or edits Analogue programmes (p. 25)
		o Film	Displays moving pictures smoothly when receiving 24p signals (Off / On)
	Auto Tuning		Automatically sets the programmes received in the area (p. 27)
		DVB Manual Tuning	Sets the DVB programmes manually (p. 27)
	Tuning	Analogue Manual Tuning	Sets the Analogue programmes manually (p. 27)
	ıg Menu	Add New DVB Services	Adds new DVB services (p. 27)
	Ĩ	New Service Message	Selects whether to give a notification message when a new DVB service is found (p. 27)
		DVB Signal Display	Checks the DVB signal condition (p. 27)
	Off Timer		Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)
	Tel	etext	Teletext display mode (TOP (FASTEXT) / List) (p. 16)
	Sh	ipping Condition	Resets all settings, for example, when moving house (p. 28)
S	Sys	stem Update	Downloads new software to TV (p. 23)
Setup	Picture Overscan		 Selects the screen area displaying the image (Off / On) On : Enlarged the image to hide the edge of the image. Off : Displayed the image in the original size. Set to "On" if noise is generated on the edge 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.
	Input Labels		Labels or skips each input terminals (p. 29)
	Banner Display Timeout		Sets how long the information banner (p. 11) stays on screen ● 0 (No display) to 10 sec. in 1-sec. increments
	VIERA	VIERA Link	Sets to use VIERA Link functions (Off / On) (p. 34)
	Link	Power off Link	Sets to use Power off Link function (No / Set) (p. 34)
	Settings	Power on Link	Sets to use Power on Link function (No / Set) (p. 34)
	Region Select		Selects the region where you live to adjust the standard time (NSW/ACT / Victoria / Queensland / South Australia / Western Australia / Northern Territory / Tasmania) (p. 23)
	Daylight Saving Time		Select time offset from the standard time for Summer Time (Auto / Off / +1/2 Hr / +1 Hr) (p. 23) Set to "Auto" normally
Software Licence System Information		ftware Licence	Displays the software licence information
		stem Information	Displays the system information of this TV

How to Use Menu Functions (picture, sound quality, etc.)

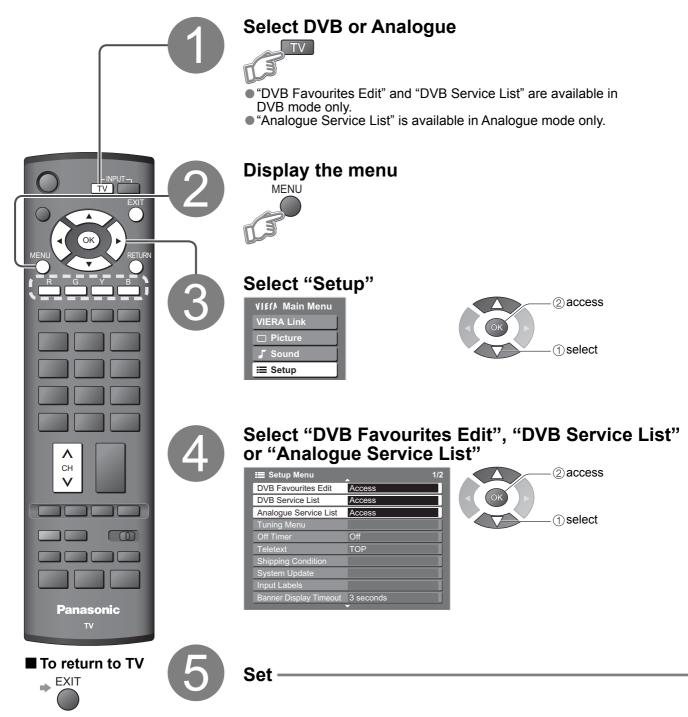
A different menu will be displayed while PC, DVI to HDMI adapter cable or SD Card is used. (p. 30-31 and p. 33)
 Only available items can be selected.

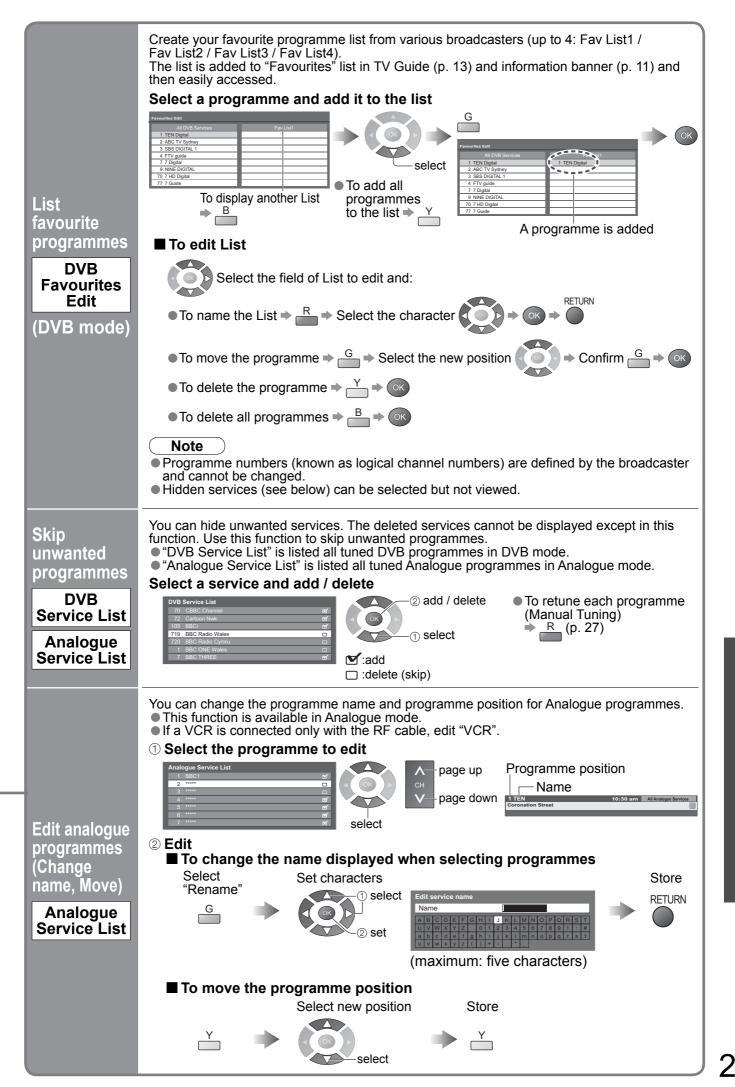




Editing Programmes

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



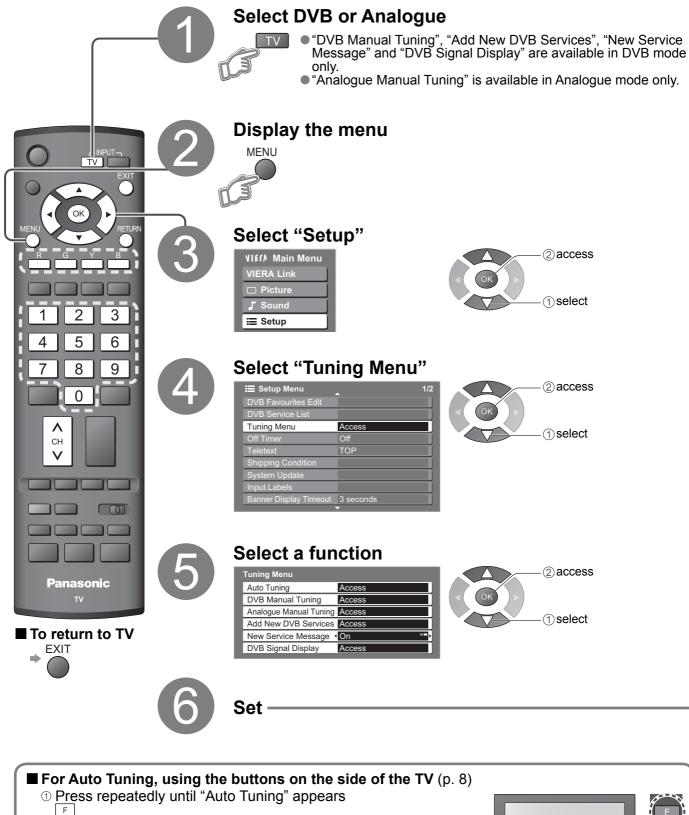


Editing Programmes

Advanced

Tuning Programmes

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



Access "Auto Tuning"
 IV



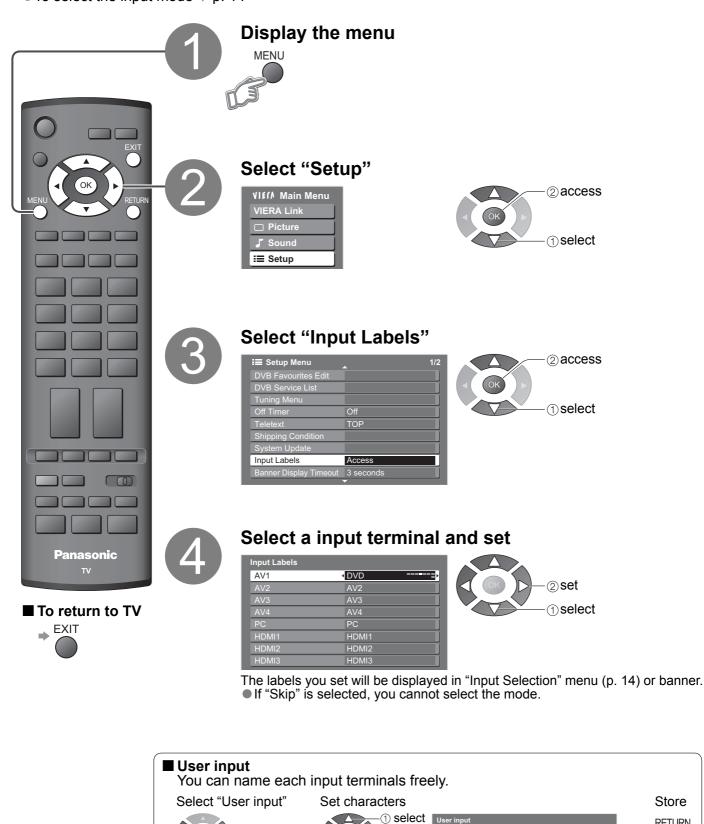
	Automatically retune all DVB or Analogue programmes received in the area. • Only DVB programmes are retuned in DVB mode. • Only Analogue programmes are retuned in Analogue mode.
Set all DVB or Analogue programmes automatically Auto Tuning	Start Auto Tuning All digital tuning data will be erased All digital tuning data will be erase
Set DVB programme manually DVB Manual Tuning	Normally use "Auto Tuning" or "Add New DVB Services" to add DVB programmes to your service list. If tuning has not been done completely or for adjusting the direction of the aerial, use this function. DVB Manual Tuning ① ① ① ① ① ① ① ① ① ① ① ① ① ① ② DVB Manual Tuning ① ② ② D ② D ② ② D ② ③<
Set Analogue programme manually Analogue Manual Tuning	Set Analogue programme manually after Auto Tuning. • If a VCR is connected only with the RF cable, select programme position "0".
Add DVB programme automatically Add New DVB Services	Any new services found will be added to the DVB Service List. Add New DVB Services Service Service Name RF Ch Service Name Ubbr 0 Searching
Display a notification message New Service Message	Selects whether to give a notification message when a new DVB service is found. (Off / On) New DVB service found! Press OK to add new service. Press EXIT to Ignore.
Check DVB signal DVB Signal Display	Selects a programme and checks the DVB signal condition. To change the programme Image: CH

Advanced

Restore Settings Resets the TV to its original condition, i.e. no programmes tuned in. All settings (programmes, picture, sound quality, etc.) are reset. Display the menu MENU Select "Setup" 2 access VIETA Main Menu VIERA Link Picture (1) select E Setup Select "Shipping Condition" **I Setup Menu** DVB Favourites I DVB Service List 2 access Tuning Menu (1) select Off Shipping Condition Access \bigcirc 3 seconds Set To return to TV EXIT • ① Check the message and initialise **Shipping Condition** OK) Analogue & DVB tuning data will be erased Are you sure? Are you sure? **Restore** FXIT **Settings** RETURN Shipping Condition ⁽²⁾ Follow the on-screen instructions • "Auto Tuning" will automatically start when Mains power On / Off switch is next turned On. (p. 9) To retune TV programmes only, e.g. after moving house "Auto Tuning" (p. 27)

Input Labels

For easier identification and selection of the input mode, you can label each input terminals or skip terminal that is not connected to any equipment. ● To select the input mode → p. 14



select

② access

Name

(maximum: ten characters)

2) set

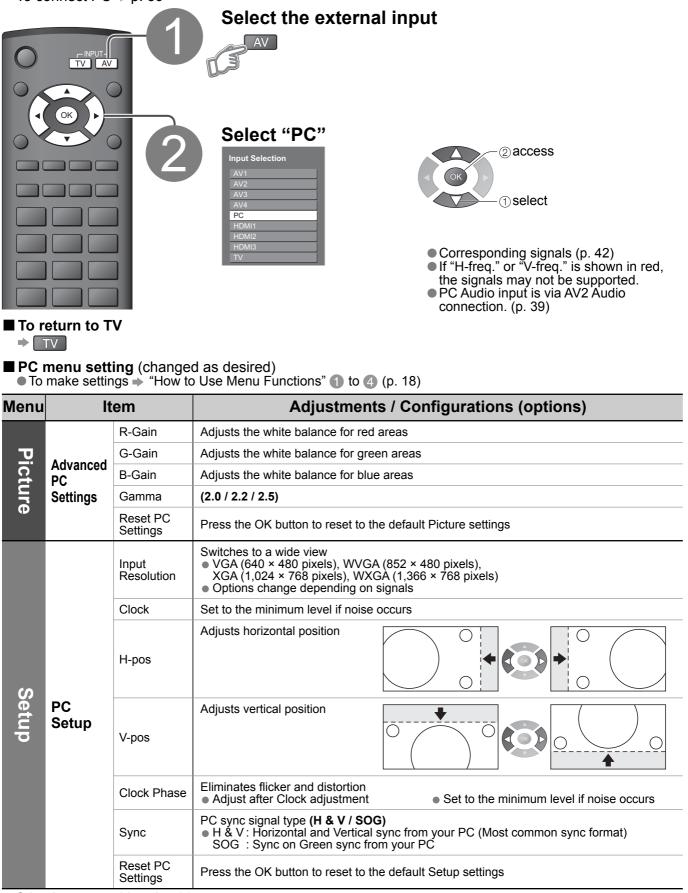
RETURN

Input Labels Restore Settings

Advanced

Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV. You can also listen to PC sound with the audio cable connected. • To connect PC \Rightarrow p. 39



Other items p. 20 and p. 21

HDMI Functions

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and highquality sound by connecting the TV and the equipment.

HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable. About connections, see "External Equipment" (p. 38).

Note

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- Audio settings can be made on the "HDMI1 / 3 Input" menu screen. (p. 20)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz
 HDMI2 terminal is for digital audio signal only.
- Use with a PC is not assumed.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A"
- These HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- An equipment having no digital output terminal may be connected to the input terminal of either "COMPONENT", 'S-VIDEO", or "VIDEO" to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 42.

DVI connection

- If the external equipment has only a DVI output, connect to the HDMI1 / 3 terminal via a DVI to HDMI adapter cable (*2)
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AV2 IN AUDIO terminals / HDMI3: use AV4 IN AUDIO terminals).

DVI Position Settings

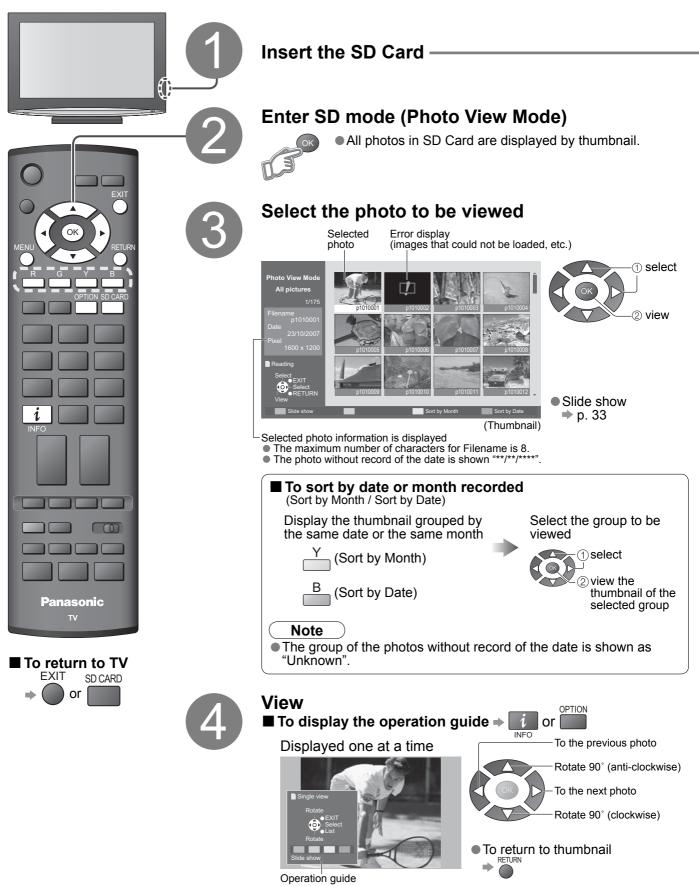
If the picture position is not fit to the screen during the DVI connection, adjust the position on "DVI Position Settings" in Setup Menu. The settings are memorized for each HDMI terminals and input signals. To make settings
 "How to Use Menu Functions"
 to
 (p. 18)

Menu	Item		Adjustments
~		H-pos	Adjusts horizontal position
Setup	DVI Position Settings	V-pos	Adjusts vertical position
		Reset DVI Position Settings	Press the OK button to reset to the default Setup settings

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

Viewing from SD Card

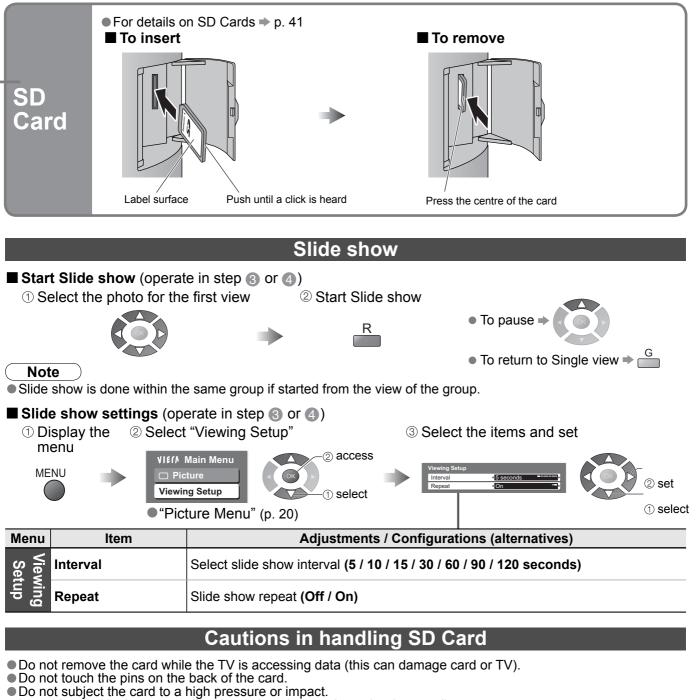
Still images recorded by digital cameras will be displayed.



Caution

• During the operation, no signals are output from the monitor output terminals.

(Photos)



- 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 p. 41.) 			
Is SD Card in?	Insert a SD Card.			
No valid file to play	The card has no data.			
Over 9999 pictures found	Maximum valid number of photos is 9,999.			

VIERA Link "HDAVI Control™"∗

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function. This TV supports "HDAVI Control 3" function.

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

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

• Some functions are not available depending on the equipment's version of HDAVI Control. Please confirm the view of the second of the secon

known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

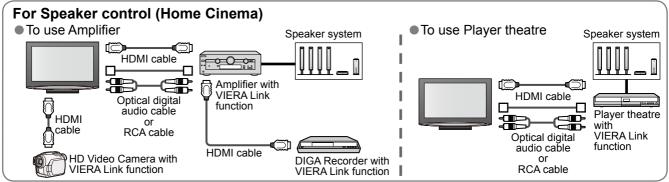
Please refer to individual manuals for other manufacturers' equipment supporting VIERA Link function. About applicable Panasonic equipment, consult your local Panasonic dealer.

Summary of VIERA Link functions

Power on link Power off link Easy playback Speaker control Control the menu of the connected equipment by VIERA remote control (Available with the equipment which has "HDAVI Control 2" or "HDAVI Control 3" function.) Pause Live TV programme Direct TV Recording (Available with the equipment which has "HDAVI Control 3" function.) Connections HDMI cable Read the manual of the equipment, too. Use fully wired HDMI compliant cable. Non-HDMI-compliant cables cannot be utilized. Recommended Panasonic's HDMI cable part number: • RP-CDHG30 (3.0 m) HDMI cable

DIGA Recorder / HD Video Camera with VIERA Link function

- RP-CDHG10 (1.0 m) RP-CDHG15 (1.5 m) • RP-CDHG50 (5.0 m) RP-CDHG20 (2.0 m)
- Connect the equipment supporting VIERA Link to the TV's HDMI1. HDMI2 or HDMI3 terminals via fully wired HDMI cables.



Preparations

- Connect the equipment supporting VIERA Link.
- Set up the connected equipment. Read the manual of the equipment.
- For optimal recording, the settings of the recorder might be required. For details, read the manual of the recorder.
- Set VIERA Link On in Setup Menu → "VIERA Link" (p. 21)

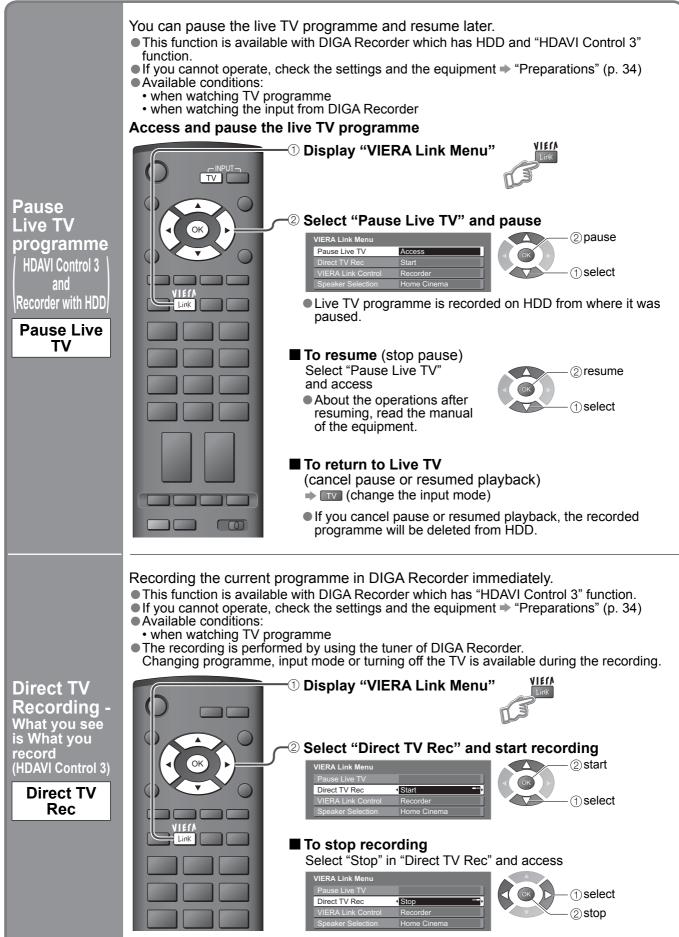
Set up the TV - After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1, HDMI2 or HDMI3 (p. 14), and make sure that an image is displayed correctly. This setup should be done each time when the following conditions occur:

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

Features available

Easy playback	Automatic Input switching - When the connected equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is not returned.
Power on link	Set Power on Link "Set" in Setup Menu to use this function
Power off link	 Set Power off Link "Set" in Setup Menu to use this function * "Power off Link" (p. 18-19, 21) When TV is set to Standby mode, the connected equipment is also automatically set to Standby. This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

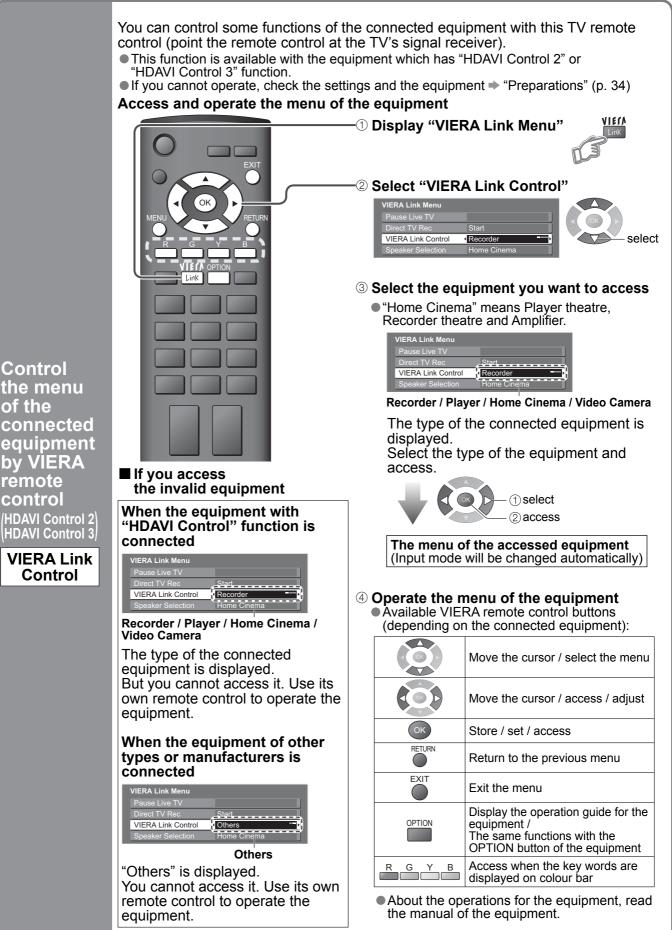
Features available (Using VIERA Link Menu)



Advanced

VIERA Link "HDAVI Control™"

■ Features available (Using VIERA Link Menu)

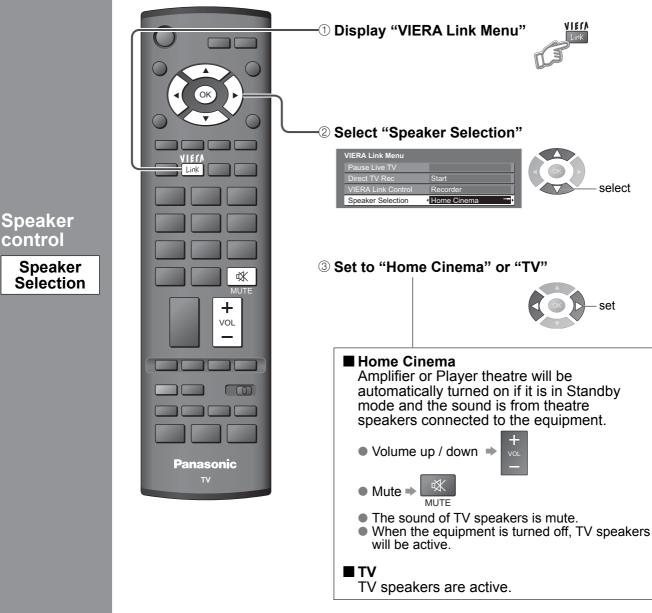


Features available (Using VIERA Link Menu)

You can control the theatre speaker with this TV remote control (point the remote control at the TV's signal receiver).

This function is available with the Amplifier or Player theatre which has "HDAVI Control" function.

● If you cannot operate, check the settings and the equipment → "Preparations" (p. 34) Access and control the speaker volume

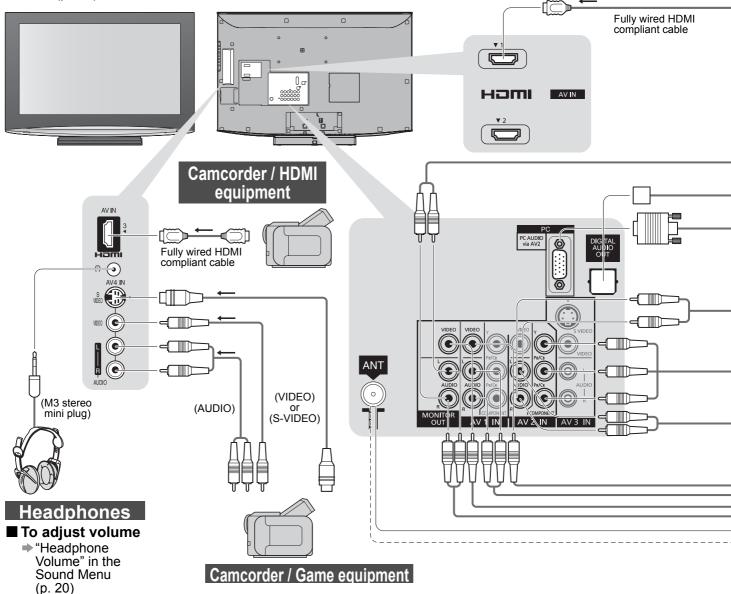


Note

- This function may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier or Player theatre. Read the manual of the equipment.
- About HDMI cable for connecting Panasonic HD Video Camera, read the manual of the equipment.
- If more than one equipment of the same type are connected to the TV by HDMI cables, for example two DIGA Recorders to HDMI1 and HDMI2, VIERA Link will only be available for the lower terminal number, in this case HDMI1.
- "HDAVI Control 3" is the newest standard (current as of December, 2007) for HDAVI Control compatible equipment. This standard is compatible with conventional HDAVI equipment.

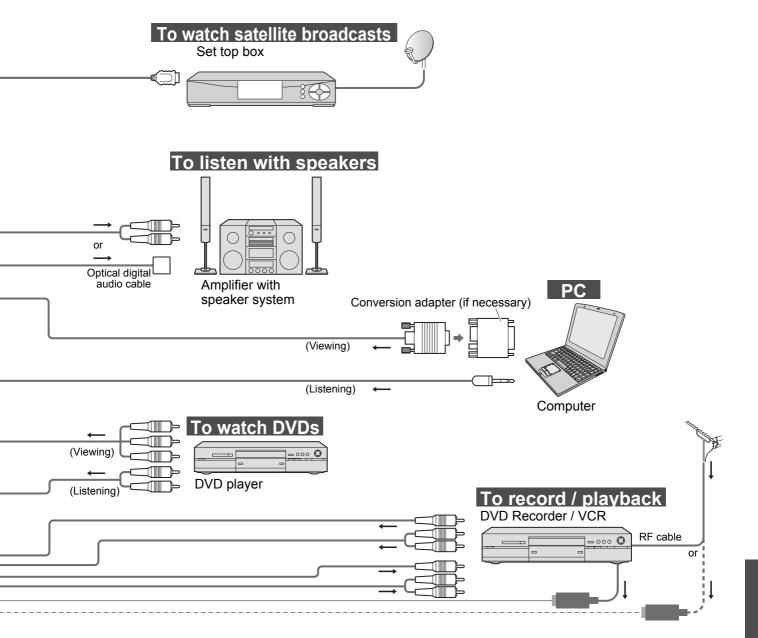
External Equipment

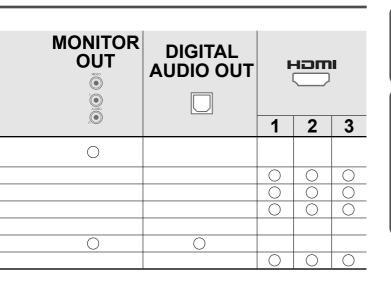
These diagrams show our recommendations for how to connect the TV to your various equipment. For other connections, consult the instructions for each piece of equipment, the table below, and the specifications (p. 46).

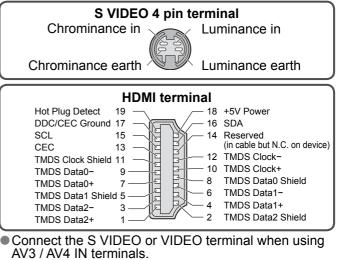


Types of connectable equipment to each terminal						
Terminal Recording / Playback (equipment)	AV1 IN	AV2 IN	AV3 IN C Vero C Mero	AV4 IN (Side of TV)		
To record / playback videocassettes / DVDs (VCR / DVD recorder)	0	0	0	0		
To watch DVDs (DVD player)	0	0	0	0		
To watch camcorder images (Video camera)	0	0	0	0		
To watch satellite broadcasts (Set top box)	0	0	0	0		
To play games (Game equipment)	0	0	0	0		
To use amplifier with speaker system						
VIERA Link						

O: Recommended Connection







 Connect the COMPONENT or VIDEO terminal when using AV1 / AV2 IN terminals.

Technical Information

Programme Allocation (Analogue mode)				
CH Display / Receive Programme	CH Display / Receive Programme CH Display / Receive Programme			
СӉѻ	S _, 6	СӉ 10		
CH 5	S 10	Сн 12		
S_2	CH 6	S 11		
S ['] 5	СН 9	S 44		
CH 5A	CH 9A	CH 20 CH 75		

Rating (DVB mode)

Rating	Meaning	Rating	Meaning	
-	Not classified	М	Mature	
Р	Pre school	MA 15+	15+ Mature Adult 15+	
С	Children	AV 15+	Adult strong Violence 15+	
G	General	R	Restricted 18+	
PG	Parental Guidance recommended			

Updating the software system (DVB mode)

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

If there is an update available, a notification that you have lated version centrate.
 To download new software, press "OK" → Downloading (approx. 20 mins.) If you choose not to download, press "EXIT".

To update automatically

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

- If there is a new version software being broadcast, the TV will download this automatically.
- The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every morning under the following conditions.
 - Standby (TV turned Off with the remote control)
 - Recording is not in progress.

To update manually

Perform "System Update Search Now" (p. 23)

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

Note

- During downloading, do not turn Off the TV or touch any buttons.

Other TV is automatically activated after downloading is completed.)
 When the TV is switched to standby, there will be a clicking sound after a short delay. Similar clicking sounds will also occur at 3:00 AM and 5:00 AM when "Auto update Search in Standby" (p. 23) is set to "On". These sounds are normal.

	Data format for Card browsing
Photo	: Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards
Data format	: Baseline JPEG (Sub-sampling 4:4:4, 4:2:2 or 4:2:0)
Max. number of file	
Image resolution	: 160 × 120 to 10,000,000
Transfer rate	
 Compliant card miniSD Card (1 	type (maximum capacity): SDHC Card (16 GB), SD Card (2 GB), Multi Media Card (128 MB), GB) (requiring miniSD adapter)
	s used, insert / remove it together with the adapter.
	: information on the card type at the following website. (English only) .co.jp/pavc/global/cs/
*DCF (Design	rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

Note

A JPEG image modified with a PC may not be displayed.

Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
 Partly degraded files might be displayed at a reduced resolution.

• Only ".JPG" extension can be read by this TV.

The folder and file names may be different depending on the digital camera used.

Do not use two-byte characters or other special codes.

The card may become unusable with this TV if the file or folder names are changed.

Stereo / Bilingual Sound Selection (Analogue mode)

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

Audio Signal	STEREO	MAIN I	SUB II	MONO
Mode Indicator	\odot	I	п	\bigtriangledown

NICAMUsed in New Zealand, Singapore, Hong Kong etc.

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 \bigtriangledown	I \(\neq \)	$\bigcirc \leftrightarrow \bigtriangledown$	

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 $\dashrightarrow \nabla$	I I	$\bigcirc \dashrightarrow \bigtriangledown$

Note

If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.

Even when the contents of the receiving signal undergo changes, selection mode is kept intact.

When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position.
 DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

Technical Information

PC connection

A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV. PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).

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

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 below.

Max. display resolution

Acnost	4:3	1,440 × 1,080 pixels
Aspect	16:9	1,920 × 1,080 pixels

D-sub 15-pin connector signal

5 4 3 2 1 10 9 8 7 6	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
15 14 13 12 11	1	R	6	GND (Ground)		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)

Input signal that can be displayed

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

* Mark: Applicable input signal

Signal name	COMPONENT	НДМІ
_480i (60 Hz)	*	*
480p (60 Hz)	*	*
576i (50 Hz)	*	*
576p (50 Hz)	*	*
_720p (60 Hz)	*	*
720p (50 Hz)	*	*
1,080i (60 Hz)	*	*
1,080i (50 Hz)	*	*
1,080p (60 Hz)		*
1,080p (50 Hz)		*
1,080p (24 Hz)		*

PC (D-sub 15P)

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
1,366 × 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

Note

Signals other than above may not be displayed properly.

The above signals are reformatted for optimal viewing on your display.

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

PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

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

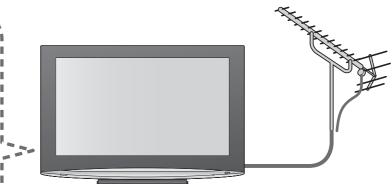
- Is the TV in "AV mode"?
- Is the mains lead plugged into the socket outlet?
- Is the TV turned On?

1

Check Picture Menu (p. 20) and volume.

An error message appears

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



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

Pixel Statement

• 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. 1

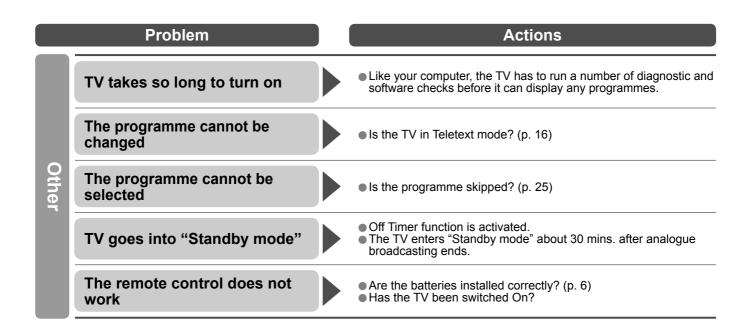
Problem		Actions
Chaotic image, noisy		 Set "P-NR" in the Picture Menu (to remove noise). (p. 20) Check nearby electrical products (car, motorcycle, fluorescent lamp).
No image can be displayed		 Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 20)
Blurry or distorted image (no sound or low volume)		Reset programme. (p. 27)
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. 9). Reset settings in "Shipping Condition" (p. 28), then select "Home' in "Auto Tuning" (p. 9).
No sound is produced		 Is "Sound mute" active? (p. 8) Is the volume set to the minimum?
Sound level is low or sound is distorted		 Sound signal reception may be deteriorated. Set "MPX" (p. 20) in the Sound Menu to "Mono".
	No image can be displayed Blurry or distorted image (no sound or low volume) Unusual image is displayed "Shop" appears on screen at switch on No sound is produced Sound level is low	Chaotic image, noisy No image can be displayed Blurry or distorted image (no sound or low volume) Unusual image is displayed "Shop" appears on screen at switch on No sound is produced Sound level is low

II.

FAQs, etc.

FAQs

	Problem	Actions				
HDMI	Sound is unusual	 Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 / 3 Input" setting in the Sound Menu. (p. 20) If digital sound connection has a problem, select analogue sound connection. (p. 31) 				
	Pictures from external equipment are unusual when the equipment is connected via HDMI	 Is the HDMI cable connected properly? (p. 38) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 42) Use an equipment compliant with EIA/CEA-861/861B. 				
	• Digital TV reception technology requires high quality, robust DTV signals which in some domestic aerial installations, may be relatively poor despite good analogue reception.					
DVB	Aerial connection when using DTV and VCR / DVD Recorder	 To maintain optimum signal quality from TV aerial, use a TV aerial splitter (as illustrated) when connecting two or more equipments to the same aerial. TV (Individual aerial) T© - Aerial Output Aerial Output Aerial Input terminal VCR T© - (Individual aerial) 				
	After DVB Auto Tuning only some or no DVB services are found	 Check to ensure your area is covered by DVB transmissions. Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1. Note: If you live within 5-10 Km of DVB transmission towers, a combined VHF / UHF aerial should be adequate. Outside this area, separate VHF and UHF aerials provide superior reception performance. If you live in a unit or apartment, check to ensure the Master Antenna TV (MATV) system is designed for analogue and DVB-T reception. Please consult your body corporate. 				
	Picture regularly breaks up on some programmes, or "No Signal" message	 Check "Signal Display". (p. 27) If "Signal Quality" or "Signal Strength" are displayed in red or constantly changing, check aerial. If problem persists consult your local TV aerial installer. Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1. Interference (known as impulse noise) from household appliances such as light switches, fridges etc may cause picture break up and / or audio distortion. Use high quality quad shielded coaxial cable fly lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer. When "No Signal" message is displayed check TV aerial connection. The received signal may be too weak to allow the TV to reliably lock to the desired "No Signal" programme to generate a stable picture. Repeat the tuning procedure (p. 27). If problem persists consult your local TV aerial installer. 				
	Picture very infrequently breaks up on some or all programmes	 Electrical atmospheric interference caused by local or distant lighting storms or heavy rain with wind in "leafy" locations may cause pictures to break up and audio to mute or distort momentarily. Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system. 				



Licence

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

Specifications

_	-			. =			
Power Source		AC 220-240 V, 50 / 60 Hz					
Power Consumption	Average use 152 W						
		y condition	0.3 W				
Dis	Aspect Ratio 16:9						
Display panel	Visible screen size		80 cm (diagonal)				
			697 mm (W) × 392 mm (H)				
	Number of pixels		2,073,600 (1,920 (W) × 1,080 (H))				
Sound	-		160 mm × 42 mm × 2 pcs, 8 Ω				
Ind	•		20 W (10 W + 10 W), 10% THD				
	Headphones		M3 (3.5 mm) stereo mini Jack × 1 VGA, SVGA, XGA, SXGA				
PC signals		VGA, SVGA, XGA, SXGA Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz					
Receiving Systems /		PAL B/G	B/G Reception of Off air broadcasts				
		vstems /	DVB-T		(/	free-to-air TV broadcast reception	
	d name		PAL 60 HzPlayback of NTSC tape from some PAL Video recorders (VCR)M.NTSCPlayback from M. NTSC Video recorders (VCR)NTSCPlayback from NTSC Video recorders (VCR)				
Aerial - Rear			Standard Belling & Lee connector				
Operating Conditions		Temperature: 0 °C - 35 °CHumidity: 20 % - 80 % RH (non-condensing)					
င္ပ		AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]		
nn	AV1 VIDEO Input COMPONENT		RCA PIN Type	e × 1	1.0 V[p-p] (
ectio			Y Pb/Cb, Pr/Cr		±0.35 V[p-	(including synchronization) p]	
n T		AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]		
erm	AV2			e × 1	1.0 V[p-p] (75 Ω)		
Connection Terminals	Input	COMPONENT	Y Pb/Cb, Pr/Cr		±0.35 V[p-	(including synchronization) p]	
	AV3	AUDIO L - R	RCA PIN Type		0.5 V[rms]		
	Input	VIDEO	RCA PIN Type × 1		1.0 V[p-p] (
		S VIDEO	Mini DIN 4-pin			o] (75 Ω) C:0.286 V[p-p] (75 Ω)	
	AV4	AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]		
	Input	VIDEO	RCA PIN Type × 1		1.0 V[p-p] (· · ·	
		S VIDEO		Mini DIN 4-pin		o] (75 Ω) C:0.286 V[p-p] (75 Ω)	
		AUDIO L - R	RCA PIN Type × 2		0.5 V[rms]	(high impedance)	
	Output	VIDEO	RCA PIN Type × 1		1.0 V[p-p] ((75 Ω)	
		HDMI1 - 3 Input TYPE A Connectors		This TV supports "HDAVI Control 3" function.			
	Others	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) (PC AUDIO via AV2 Input Audio L-R)		
		DIGITAL AUDIO OUT	PCM / Dolby I	Digital, Fiber optic			
		Card slot	SD CARD slot × 1				
Dimensions (W × H × D)		821 mm × 580 mm × 225 mm (With TV Stand) 821 mm × 539 mm × 98 mm (TV only)					
Mass			18.5 kg Net				
_							

Note

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

WARRANTY - Australia only

 The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or it's 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. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or it's 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. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product. This warranty does not cover the following items unless the fault or defect existed at the time of purchase: (a) Video or Audio Tapes (b) Video or Audio Tapes (c) Shaver Heads or Cutters (d) Cabinet Parts (e) User replaceable Batteries (f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads 							
 5. If warranty service is required you should: • Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of 							
 the nearest Authorised Service Centre. Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you. Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres: (a) Picture tube (CRT) based Television Receivers (screen (b) Convection/Combination Microwave Ovens sizes greater than 66cm); Rear Projection TV's; Plasma/LCD (c) Whiteboard (except portable type) televisions / displays (screen size greater than 103 cm) 6. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit. Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre 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 <i>Trade Practices Act 1974</i> 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 an							
THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES							
If you require assistance regarding warranty conditions or any other enquiries, please visit the Panasonic Australia website							
www.panasonic.com.au or by phone on 132 600 If phoning in, please ensure you have your operating instructions available.							
Panasonic Australia Pty. Limited ACN 001 592 187 ABN 83 001 592 187							
Locked Bag 505, Frenchs Forest, NSW 2086 PRO-031-F01 Issue: 3.0 www.panasonic.com.au 23-11-2005							

Customer's Record

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

Model Number

Serial Number

Matsushita Electric Industrial Co., Ltd.

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