

Model No.

TH-L42S20K TH-L42S20M TH-L42S20R

TH-L42S20T

Operating Instructions LCD TV



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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

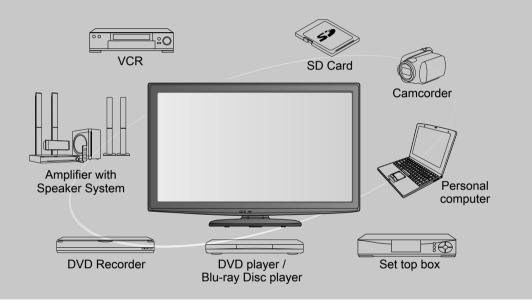




Experience an amazing level of multimedia excitement

Sharp pictures with HDMI terminal Create home theatre and DVD recorder link-ups with "VIERA Link" without complicated settings!

Enjoy rich multimedia



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 $\space{\space{2mm}}$

☐ Pedestal ⇒ p. 6

☐ Pedestal hole

cover sheet

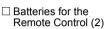
(only for TH-L42S20K, TH-L42S20T)

☐ Remote Control

N2QAYB000399

or N2QAYB000370





R6 (AA)

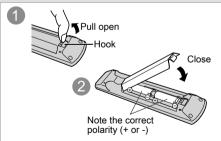


□ Operating Instructions

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.



Be sure to Read

Safety Precautions · · · · · 4 (Warning / Caution)

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Quick Start

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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.
- TH-L42S20K, TH-L42S20T: AC AUTO 110-240 V. 50 / 60 Hz
- TH-L42S20M : AC 110-240 V, 50 / 60 Hz
- TH-L42S20R : AC Single 220-240 V. 50 / 60 Hz



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

Mains plug types vary between countries.

Power source / Installation

- This TV is designed for :
 - TH-L42S20K, TH-L42S20T : AC AUTO 110-240 V, 50 / 60 Hz
 - TH-L42S20M : AC 110-240 V. 50 / 60 Hz
 - TH-L42S20R :
 - AC Single 220-240 V, 50 / 60 Hz
 - 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.

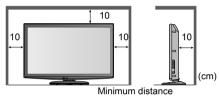
6/16/2010 2:22:55 PM





Caution

- This appliance is intended for use in tropical climates
- 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
 - 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.



■ 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.

■ Do not expose your ears to excessive volume from the headphones

Irreversible damage can be caused.

Notes

■ Auto power standby function

If no signal is received and no operation is performed for 30 minutes, the TV will automatically go
to standby mode.

■ Keep the TV away from these types of equipment

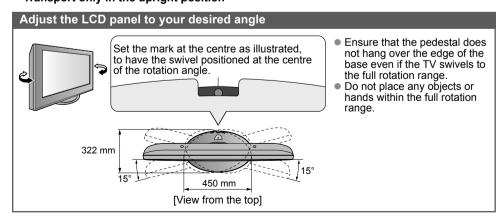
Electronic equipment

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 the upright position





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.

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 néarest Panasonic dealer immediately.

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

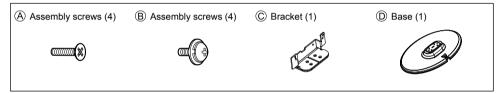
 If insufficient care is taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the TV, and it might fall over and become damaged, and personal injury may result.

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.

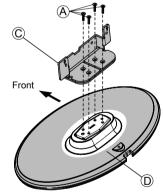
• If two or more people are not present, the TV may be dropped, and personal injury may result.



Assembling the pedestal

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

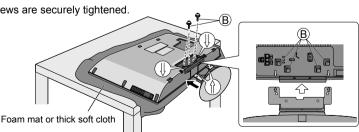
Make sure that the screws are securely tightened.



Securing the TV

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









Optional accessories

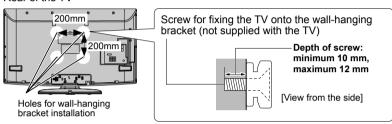
Please contact your nearest Panasonic dealer to purchase the recommended wall-hanging bracket. For additional details, please refer to the wall-hanging bracket installation manual.

Wall-hanging bracket

TY-WK3L2RW



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.

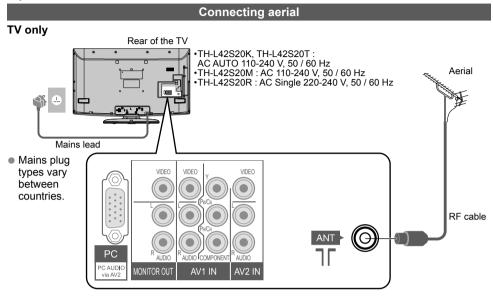


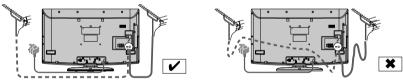




Basic Connection

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.





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

Note

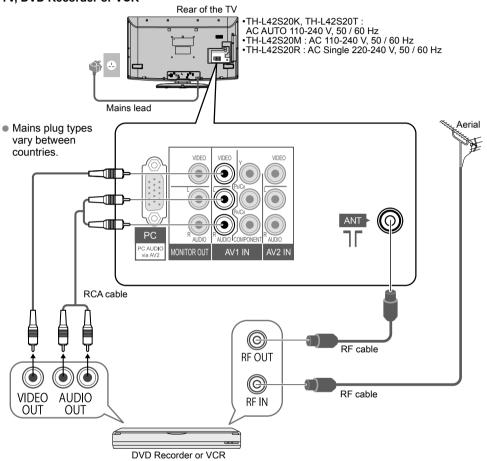
- Do not put the RF cable close to the mains lead to avoid noise.
- Do not place the RF cable under the TV.
- To obtain optimum quality picture and sound, an aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal aerial system is used, you may require 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. 39
- Read the manual of the equipment, too.
- Another equipments connection ⇒ p. 44, p. 45



Connecting DVD Recorder / VCR

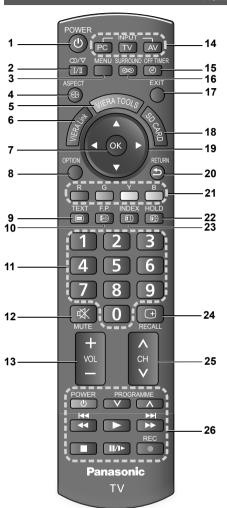


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Identifying Controls

Remote control



- 1 Standby On / Off switch
- Switches TV On or Off standbyStereo / Bilingual Sound Selection
- (p. 47)
- 3 Main Menu (p. 21)
 - Press to access Picture, Sound and Setup Menus
- 4 Aspect (p. 15)
 - Changes aspect ratio from Aspect Selection list
 - Pressing this button repeatedly changes aspect ratio as well

5 VIERA TOOLS (p. 31)

- Displays some special feature icons for easy access
- 6 VIERA Link (p. 39)
 - Accesses VIERA Link Menu

7 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. 16)
 - Switches to teletext mode
- 10 Viewing a favourite teletext channel (p. 16)

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 Input mode selection

- PC switches to PC input mode
- TV switches to TV mode (p. 13)
- AV switches to AV input mode from Input Selection list (p. 18)

4

15 Off Timer (p. 13)

Sets the time the TV automatically turns off

16 Surround (p. 23)

Switches surrounding sound setting

17 Exit

Returns to the normal viewing screen

18 SD Card (p. 32)

Switches to Media Player viewing / listening mode

19 Cursor buttons

Makes selections and adjustments

20 Return

Returns to the previous menu / page

1 Coloured buttons

Used for selection, navigation and operation of various functions

22 Hold

- Freeze / unfreeze picture (p. 13)
- Holds the current teletext page (teletext mode) (p. 16)

23 Index (p. 16)

- Returns to the teletext index page (teletext mode)
- 24 Programme Information (p. 14)

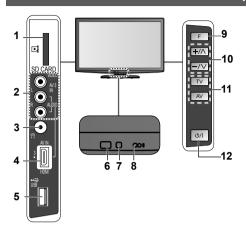
25 Channel Up / Down

- Selects channel in sequence
- 26 Connected equipment operations (p. 19)





TV



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

7 C.A.T.S. (Contrast Automatic Tracking System) sensor

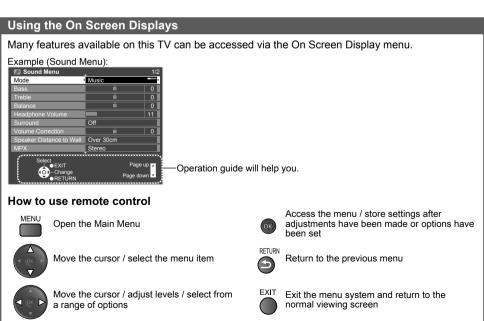
 Senses brightness to adjust picture quality when "Eco Mode" in the Picture Menu is set to "On" (p. 22)

8 Power LED

- Standby: red On: green
- When using the remote control, indicates the TV has received a command.

9 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 / "Auto Tuning" (p. 22 - 25)
- 10 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.
- 11 Changes the input mode
- 12 Mains power On / Off switch
 - Switch On to turn on the TV or turn the TV to Standby mode by the remote control

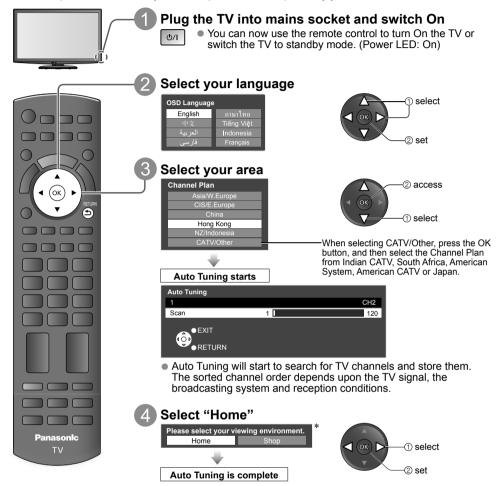




Auto Tuning

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. 22).

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

"Viewing Mode" is set as "Dynamic" (p. 22).

To return to viewing environment selection mode if you selected "Shop"



To change viewing environment mode later on, reset all settings by accessing Shipping Condition.
 "Shipping Condition" (p. 30)



Watching TV

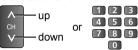


Turn power on

POWER

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

Select a channel



- To select the two-digit channel number, e.g. 39
- If one-digit channel number
 - →

 ¬ quickly changes the channel

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

Other useful functions

Hold

HOLD

Freeze / unfreeze picture

Off Timer

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

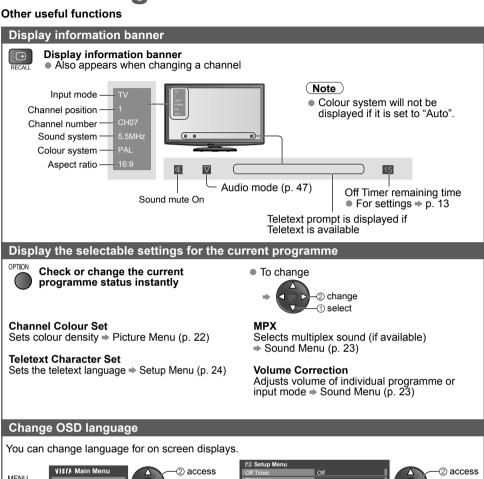
(a)

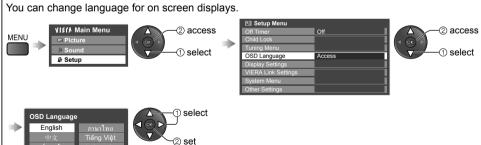
Press repeatedly until desired time appears.

- It is also possible to set the time from "Off timer" in the Setup Menu (p. 24)
- 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

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. 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" 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.
- Aspect mode can be memorized for each input also.





Viewing Teletext

Teletext services are the text information provided by the broadcasters. The features may vary depending on the broadcasters.

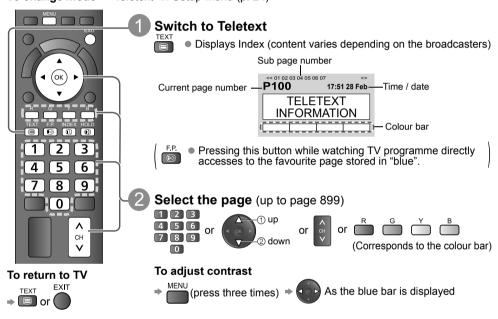
What is FASTEXT mode?

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 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. 24)



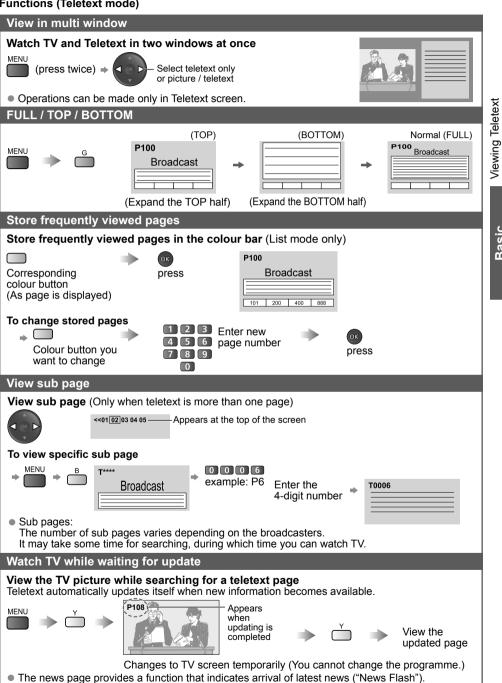
(

Functions (Teletext mode)

Hold	Reveal hidden data	
HOLD Stop automatic updating (If you wish to hold the current page without updating) HOLD To resume	Reveal hidden words e.g. quiz page answers To rehide	
INDEX	Call up a favourite page	
Return to the main index page	F.P. View a favourite page stored Call up the page stored on the blue button (List mode). Factory setting is "P103".	



Functions (Teletext mode)





Watching External Inputs

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

To connect the equipment ⇒ p. 44, 45

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.

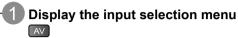


To return to TV

→ TV

18

TH-L42S20KMRT EN.indd 18



Select the input mode of the connected equipment

- You can also select the input using the AV button on the remote control or the side panel controls of the TV (p. 11).
- Press the button repeatedly until the desired input is selected.

 You can label or skip each input mode → "Input Labels" (p. 29)
- You can label or skip each input mode ⇒ "Input Labels" (p. 29)
 Skipped inputs will not be displayed when the AV button is pressed.





3 View

The selected mode is displayed on the screen.

Example (AV2)



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

Example (PC)



- It is also possible to switch to PC input directly from TV mode by pressing the PC button.
- You can also listen to PC sound with an audio cable connected.
- You can setup some functions, Advanced PC Settings (p. 22) in Picture Menu and PC Setup (p. 24) in Setup Menu.
- For a HDMI-compatible PC (p. 49), it is possible to connect to HDMI terminals (HDMI1 / HDMI2 / HDMI3) by using HDMI cable.







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 operations
44	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
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. 39), select the code "73".

Press and hold Power 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. 42)	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.

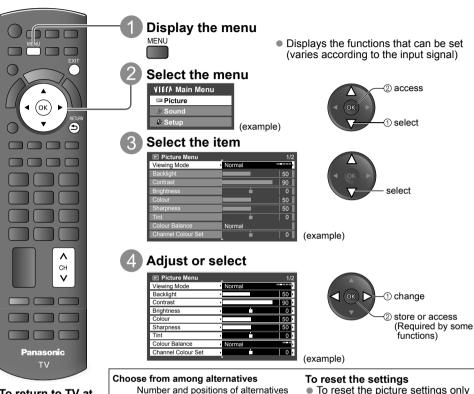






How to Use Menu Functions

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



To return to TV at any time

Colour Balance

Sharpness

Tuning Menu

Adjust using the slide bar

Go to the next screen

Changed

Displays the next screen



To return to the previous screen RETURN



20

pages



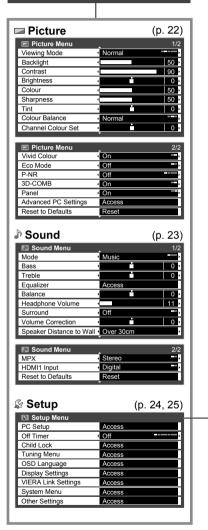
- To reset the picture settings only
 - "Reset to Defaults" in Picture Menu (p. 22)
- To reset the sound settings only
 - "Reset to Defaults" in Sound Menu (p. 23)
- To reset all settings
 - ⇒ "Shipping Condition" in Setup Menu (p. 25)

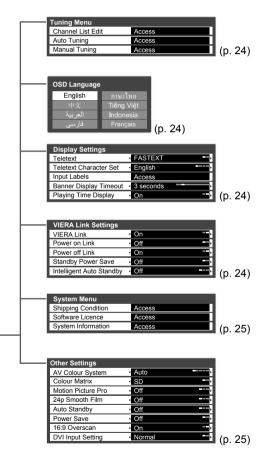
To change menu



21

VIECA Main Menu ■ Picture ♪ Sound Setup





Depending on the received signals, available items are varied.





Menu list

Menu		Item	Adjustments / Configurations (alternatives)		
Menu		Itelli	Basic picture mode (Dynamic / Normal / Cinema / True Cinema / Game)		
	Viewi	ng Mode	In each Viewing Mode, Backlight, Contrast, Brightness, Colour, Sharpness, Tint, Colour Balance, Vivid Colour, Eco Mode 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 quality of the image 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. 24)		
	Backlight, Contrast, Brightness, Colour, 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		Allows you to set the overall colour tone of the picture (Cool / Normal / Warm)		
Picture	Channel Colour Set		Colour density varying between broadcast channels can be adjusted to three levels for each reception channel Select the channel you want to adjust and set this function.		
Pic	Vivid Colour		Automatically adjusts colours to vivid ones (Off / On) Not valid on PC signal		
	Eco Mode		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)		
	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		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.		
	Advanced PC Settings	R-Gain, G-Gain, B-Gain	Adjusts each gain		
		R-Cutoff, G-Cutoff, B-Cutoff	Cuts off each area		
	Ad	Gamma	Changes the gamma curve (1.8 / 2.0 / 2.2 / 2.4 / 2.6)		
	Reset to Defaults		Press the OK button to reset the present Advanced PC Settings to the default.		
	Rese	t to Defaults	Press the OK button to reset the present Picture Menu settings to the default.		







Menu	Item	Adjustments / Configurations (alternatives)			
	Mode	Basic sound mode (Music / Speech / User) 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 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 to Defaults" by using cursor button, and then press the OK button.			
<u>n</u>	Balance	Adjusts the volume level of right and left speakers			
Sou	Headphone Volume	Adjusts the volume of the headphones			
	Surround	Surround sound settings (Off / V-Audio / V-Audio Surround) 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 Switching is also possible by the Surround button on the remote control (p. 10).			
	Volume Correction	Adjusts the volume of individual channel or input mode			
	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. 47) Normally: Stereo Stereo signal cannot be received: Mono M1 / M2: Available while mono signal is transmitted			
	HDMI1 / 2 / 3 Input	Select to fit the input signal (Digital / Analogue) (p. 48). Digital : HDMI cable connection Analogue: HDMI-DVI adapter cable connection HDMI input mode only			
	Reset to Defaults	Press the OK button to reset the present settings of Mode, Balance, Headphone Volume, and Surround in Sound Menu to the default.			

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Menu	enu Item		Adjustments / Configurations (alternatives)			
		Input Resolution	Switches to a wide view VGA (640 × 400 pixels), VGA (640 × 480 pixels), WVGA (852 × 400 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.			
	dr	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 / On Green) H & V : by the horizontal and vertical signals from your PC On Green: by green signal from your PC			
		Reset to Defaults	Press the OK button to reset the present PC Setup settings to the default.			
	Off Timer		Sets the time the TV automatically goes to Standby mode (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes) (p. 13)			
	Ch	ild Lock	Locks a channel / AV input to prevent access to it (p. 28)			
	Tuning Menu	Channel List Edit	Skips the unwanted channels or edits channels (p. 27)			
Q	<u>ا</u> و	Auto Tuning	Sets TV channels automatically (p. 27)			
Setup	Tuni	Manual Tuning	Sets the TV channels manually (p. 27)			
	OSD Language		Changes language for on screen displays (English / 中文 / المريية / ภาษาไทย / Tiếng Việt / Indonesia / Français)			
	Teletext		Teletext display mode (FASTEXT / List) (p. 16)			
	gs	Teletext Character Set	Selects teletext language (English / CIS / E.Europe / Persian)			
	ļģ.	Input Labels	Labels or skips each input terminal (p. 29)			
	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)			
		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. 22).			
		VIERA Link	Sets the VIERA Link functions (Off / On) VIERA Link functions become available when "VIERA Link" is set to "On" (p. 40).			
	ings	Power on Link	Sets to use Power on Link functions (Off / On) (p. 40)			
	x Sett	Power off Link	Sets to use Power off Link functions (Off / On) (p. 40)			
	VIERA Link Settings	Standby Power Save	Controls the power consumption in Standby mode of the connected equipment to reduce the power consumption (Off / On) (p. 40) 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. 40) This function is available when "VIERA Link" is set to "On".			







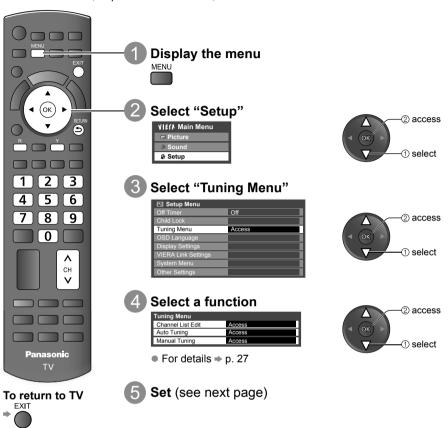
Menu	nu Item		Adjustments / Configurations (alternatives)
	enu	Shipping Condition	Resets all settings to the original condition (p. 30)
	System Menu	Software Licence	Displays the software licence information
	Syst	System Information	Displays the system information of this TV
		AV Colour System	Selects optimum colour system based on video signals in AV mode (Auto / PAL / SECAM / M.NTSC / NTSC)
		Colour Matrix	Available only with 480p or 576p input on video signals in a natural colour from digital equipment connected to AV1 component or HDMI1 / HDMI2 / HDMI3 terminals. Select SD or HD to adjust suitable colour parameters for SD (standard definition) or HD (high definition) SD: Input signal is a normal TV system HD: Input signal is a high definition system
		Motion Picture Pro	Automatically compensates the picture frame rate and removes juddering movements to make the images smooth and clear (Off / Mid / Max) This function is not available for selection (default to "Off") when "Viewing Mode" is set to "Game" or in the mode of PC input.
Setup	tings	24p Smooth Film	Automatically compensates the picture frame rate to make the 24p source movie images smooth (Off / Mid / Max) This is available only for 24p signal input and displayed instead of "Motion Picture Pro". This function is not available for selection (default to "Off") when "Viewing Mode" is set to "Game" or in the mode of PC input. With 24p source input, Blu-ray Disc player 24p output setting must be set to "On".
	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) 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.
		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.

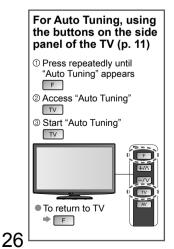
<sup>A different menu will be displayed in the mode of SD Card (p. 32-38).
Only available items can be selected.</sup>



Tuning and Editing Channels

You can Auto Tune, skip unwanted channels, etc.





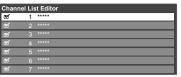




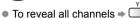


Channel List Edit Skip unwanted channels

Select a channel and reveal / hide







To retune selected channel (Manual Tuning)

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

Use this function to skip unwanted channels.

To edit channels

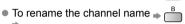
You can also edit each channel in Channel List.





Select a channel to edit and:

To move the channel position
 Select the new position







Set characters

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

Store

If a VCR is connected only with the RF cable, edit "VCR".

Auto Tuning Set all TV channels automatically

Start Auto Tuning

All tuning data will be erased

Auto Tuning

Settings are made automatically

Automatically retune all TV channels received in the area.



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 (see above).

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

Manual Tuning Set TV channel manually



Fine Tuning

 Use to make small adjustments to the tuning of an individual channel (affected by weather conditions, etc.)

Manual Tuning

Set channel manually after Auto Tuning.

- Set Sound System and Colour System, and then perform this function. Set Colour System "Auto" normally.
- If a VCR is connected only with the RF cable, select channel position "0".

Select a channel position





Select a channel





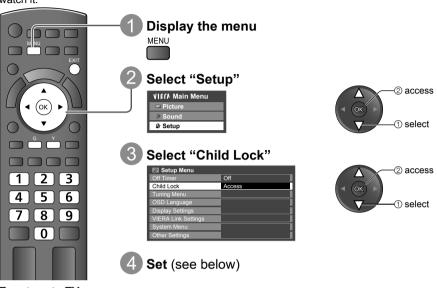
Search and store



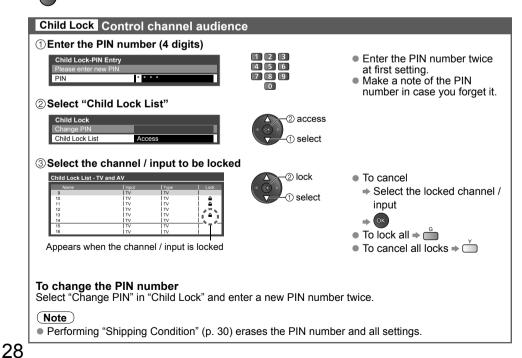


Child Lock

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.



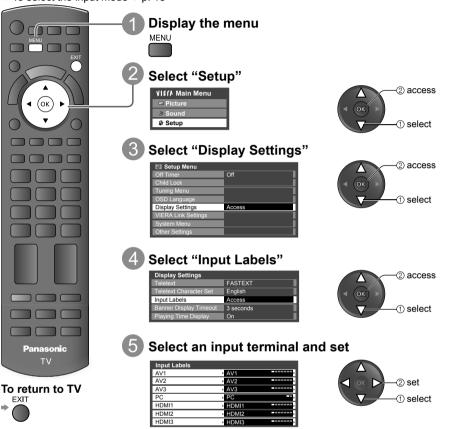




Input Labels

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. 18



The labels you set will be displayed in "Input Selection" menu (p. 18) or banner.

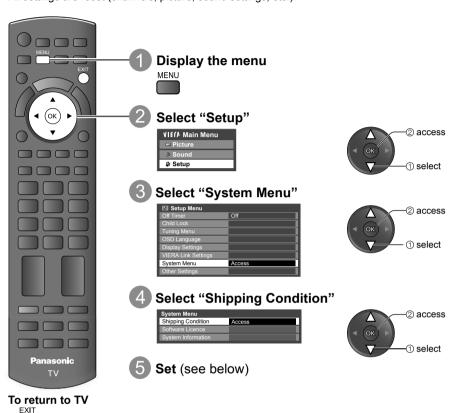
If "Skip" is selected, you cannot select the mode.

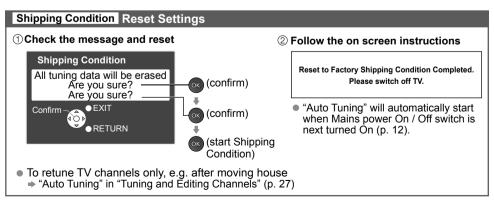
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Shipping Condition (Reset settings)

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



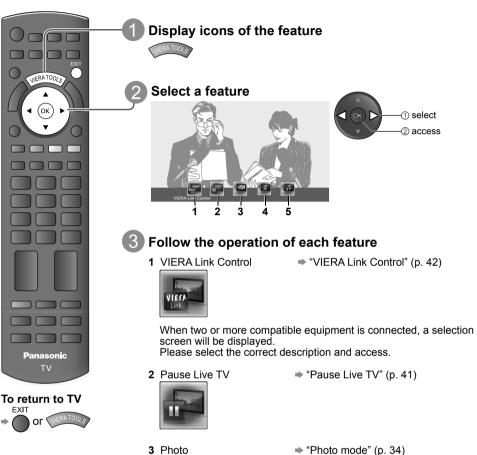


Advanced



How to Use VIERA TOOLS

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







o ⇒ "Video mode" (p. 36)



c • "Music mode" (p. 38)





Using Media Player

Media Player allows you to enjoy photos, videos or music stored on an SD Card or 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.

When these functions are used, the audio signal is output from audio output terminals, but video signals are not

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

: 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 Video : 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.)
: Data format - MP3 and AAC (Copy-protected files cannot be played back.)
I format : SDXC Card - exFAT

SD Card format

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

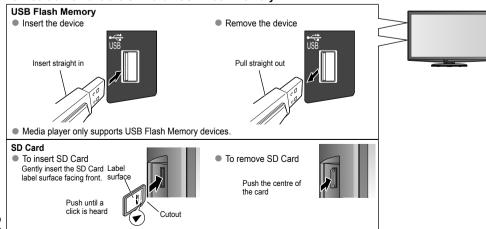
(�)

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



٠



Starting Media Player



VIERA 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. 34 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. 35)

Switch to Media Player

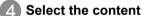


Select the device you want to access to





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











To return to the previous screen







Change the device

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













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 - All photos)

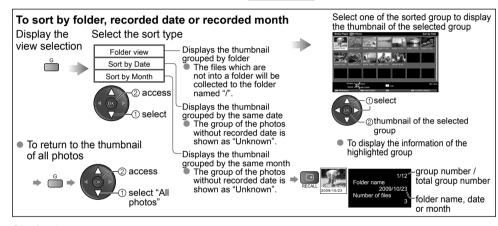
Thumbnail images of all photos on the SD Card or USB Flash Memory will be displayed.

- To change the background music
 - ⇒ "Photo Setup" (p. 35)
- 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
 - ⇒ ⊕
- 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 to start the slideshow from



- Start Slideshow
- 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.



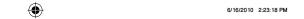






Photo Setup Setup for Photo mode

Display the menu MENU





Picture and Sound Menu ⇒ p. 22 - p. 23





Menu	Item	Adjustments / Configurations (alternatives)		
	Background Music	mode (Off / Type1 / Type2 / Type3 / d randomly ting		
	Frame Selects the display frame for the slideshow (Off / Multi / Collage) Multi : Display is divided into 9 sections in a tiled 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)	
Photo Setup	Selects the transition effect used when switching between photos during the (Off / Fade / Slide / Dissolve / Motion / Random)		n the left side. lock unit. duced, moved up or moved down.	
	Screen Mode	Selects whether to display photos in normal or enla Slideshow (Normal / Zoom) Depending on the photo size, the photo may not		
	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

Select the contents

- Photo → "Photo mode" (p. 34)
 Video → "Video mode" (p. 36)
 Music → "Music mode" (p.38)

displayed, display the contents selection











Using Media Player

Video mode

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

Access to "Video" mode (p. 33)

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



(Thumbnail - Title view)

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. 37)
 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

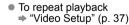






When a title is highlighted, preview starts

- (if the title supports previewing). To turn preview off
 - ⇒ "Video Setup" (p. 37)



To display the information of the highlighted scene



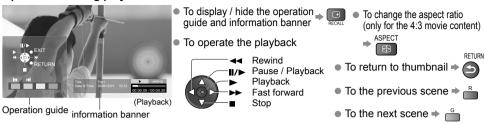


file format scene number / total scene number

37

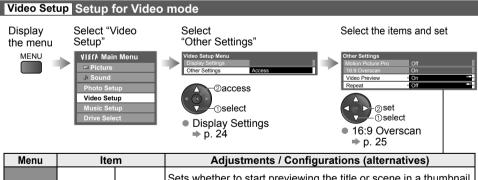






Sound Settings You can enjoy multi-channel sound by connecting an amplifier to the DIGITAL AUDIO OUT terminal. Audio output settings Select "SPDIF Selection" and set Select "Sound" Display VIEIA Main Menu the menu @access MENU ②set **nselect** ①select Photo Setup Music Setup Drive Select SPDIF Selection

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



ı	Menu	Item		Adjustments / Configurations (alternatives)
	Video Setup	Other Settings	Video Preview	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)

Note

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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. 33)



(Thumbnail - All Folder)



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

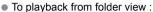


②set ①select (Thumbnail - All music)

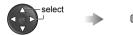
•

Playback starts

 To display the information of the highlighted folder or music

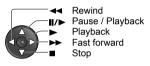


Select the folder Start playback



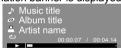
Operation during playback

- 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.





Select the items and set

Elapsed time / Total playing time

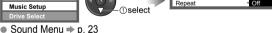


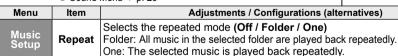


Select "Music Setup"









To set the music as the background music during Photo mode

While playing music

Display the menu

Select "File" or "Folder"









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. Plaver 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 equipments. About applicable Panasonic equipment, consult your local Panasonic dealer.

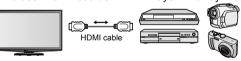
Summary of features

Connected equipment with VIERA Link function Features	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	_
Power on link	0	0	0	0	0	_
Power off link	0	0	0	0	0	0
Reduce unnecessary power consumption in standby	O*5	O*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	O*3	O*3	O*3	O*3	O*3	-
Speaker control	-	-	_	0	0	0

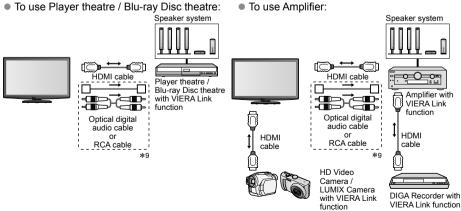
- *1: HDMI Connection only
- *2: HDMI and Audio out connections
- *3: available with the equipment which has "HDAVI Control 2 or later" function
- *4: available with the equipment which has "HDAVI Control 3 or later" function
- *5: available with the equipment which has "HDAVI Control 4 or later" function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



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

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VIERA Link Functions

- This function may not work properly depending on the connected equipment.
- For DIGA Recorder / DVD Plaver / Blu-ray Disc Plaver / 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 terminal via an HDMI cable and/or either the optical digital audio cable or RCA 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. 24)
- 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. 18), 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. 24) 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. 24) 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. 24) 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. 24)

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 "Off".



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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



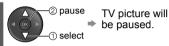


① Display "VIERA Link Menu"



② Select "Pause Live TV" and pause





- You can also access Pause Live TV by using VIERA TOOLS. ⇒ p. 31
- 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 search backward



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)



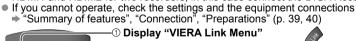


If you stop playback or cancel pause, the recorded programme will be deleted from HDD.

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.











To stop recording

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

VIERA Link Menu	
Pause Live TV	Start
Direct TV Rec	Stop
VIERA Link Control	Recorder
Speaker Selection	Home Cinema





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. 39, 40)
- For details of the operations for the connected equipment, read the manual of the equipment.







② Select "VIERA Link Control"





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. 31
- 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. 19)
 - 2. Follow the operation guide

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



Store / set / access



(

Move the cursor / access / adjust →



Return to the previous menu

Note

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 / Player1-3

The number is given from the TV's lower 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



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.

Advanced



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 If you cannot operate, check the settings and the equipment connections "Summary of features", "Connection", "Preparations" (p. 39, 40) -① Display "VIERA Link Menu" Select "Speaker Selection" VIERA Link Menu select (oĸ Speaker Selection Home Cinema 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.

TV

The TV speakers are active.

Note

Panason**i**c

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(�)

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. 39), 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 DÍGA Recorder to the Amplifier (p. 39).

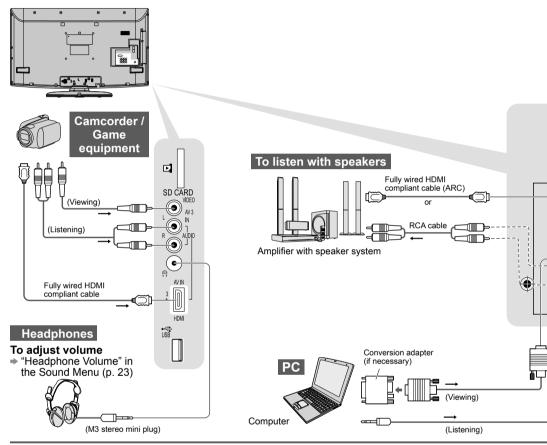
- These functions may not work properly depending on the connected equipment.
- Image or sound may not be available for the first few seconds when input mode is switched.
- Easy playback may be available by using the remote control for Home theatre or Amplifier. Read the manual of the equipment.
- "HDAVI 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. 25)





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. 55).



Types of connectable equipment to each terminal

• • • • • • • • • • • • • • • • • • • •				
Terminal Recording / Playback (equipment)	AV1 IN OOO OOO Add concern	AV2 IN O O Aug	AV3 IN (Side of TV) (Side of MS (Side of TV)	
To record / playback videocassettes / DVDs (VCR / DVD recorder)	0	0	0	
To watch DVDs (DVD player)	0	0	0	
To watch camcorder images (Video camera)	0	0	0	
To watch satellite broadcasts (Set top box)	0	0	0	
To play games (Game equipment)	O	0	0	
To use amplifier with speaker system				
VIERA Link				

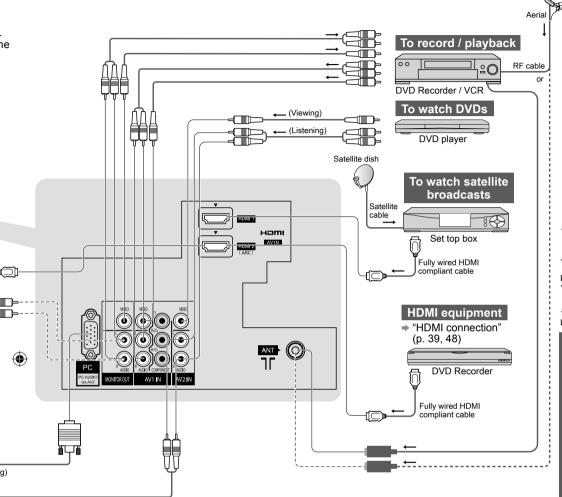
O: Recommended Connection





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





MONITOR OUT	Hami		
PALED	1	2	3
0			
	0	0	0
	0	0	0
	0	0	0
	0	0	0
0		O*1	
	0	0	0

ng)

HDMI terminal	
Hot Plug Detect 19 — 18	+5V Power
DDC/CEC Ground 17 — 16	SDA
SCL 15 — 14	Reserved
CEC 13 — 🖺	(in cable but N.C. on device)
TMDS Clock Shield 11 — 12	TMDS Clock-
TMDS Data0- 9 15 10	TMDS Clock+
TMDS Data0+ 7———8	TMDS Data0 Shield
TMDS Data1 Shield 5 — 6	TMDS Data1-
TMDS Data2- 3—4	TMDS Data1+
TMDS Data2+ 12	TMDS Data2 Shield

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Technical Information

				Chani	nel Alloc	ation				
Channel Plan	Asia/W. Europe	CIS/ E.Europe	China	Hong Kong	NZ/ Indonesia	Indian CATV	South Africa	American System	American CATV	Japan
CH DISPLAY					Receive	channel			'	
0 1 2 3 4 5 6 7 7 11 12 13 14 15 16 19 20	- 2 } } 11 12 - - - -	- 1 2 } } 11 12 - - - - -	12 13		11 2 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	- 1 2 3 4 5'1 5'2 5'3 51 52 53 54 510 5	- 1 2 } } 11 12 13 - - - -	- 2 3 4 13 14 4	1 2 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	12 13
21 22 23 24 28 28 57 58 59 262 63 269	21 	21 	57 - - - - -	21 	21 	6 	21	62 63 69	62 63	62 C13
70 / 73 74 75 76 77 78 79	- - S'1 S'2 S'3 - -	- - S'1 - - - -	- - - - - -	- - S'11 S'2 S'3 - -	- S'1 S'2 S'3 - -	32	- - S'1 S'2 S'3 - -	- - - - - -		
80 81 <i>\</i> 89	S1 S2 ~ S10	S1 S2 } S10	– Z1 } Z9	S1 S2 ~ S10	S1 S2 } S10	42) 51	S1 S2 } S10	- - - -		}
90 91 92 93 94 95 96 97 98 99	\$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20	S11 S12 S13 S14 S15 S16 S17 S18 S19 S20	Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z17 Z18 Z19	\$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20	\$11 \$12 \$13 \$14 \$15 \$16 \$17 \$18 \$19 \$20	52 } } 61	- S14 S15 S16 S17 S18 S19 S20		99	C49
100	\$21 } \$ \$41 -	\$21 } \$41 -	Z20 } Z37 - - -	\$21 } \$41 -	\$21 } } \$41	62 69 70 - - -	\$21 } S41		100	







Stereo / Bilingual Sound Selection

[∞]/[▽] When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the Stereo / Bilingual Sound Selection button.

Audio Signal	STEREO	MAIN I	SUB II	MONO
Mode Indicator	0	I	п	∇

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 → ▽	I ▽	∞ ▽	I → II

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 II	∞ ▽

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







Technical Information

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. 44, 45).

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. 49)
- Match the output setting of the digital equipment.
- Input PC signal : * "Input signal that can be displayed" (p. 49)
 Match the output setting of the PC.
- VIERA Link (HDAVI Control 5): → "VIERA Link" (p. 39)
- 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 COMPONENT-AUDIO terminals / HDMI3: use AV3 audio terminals).

Note

- Audio settings can be made on the "HDMI1 / 2 / 3 Input" in the Sound Menu. (p. 23)
- 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.





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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.

,				
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.







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 p. 49.
- Max. display resolution

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

D-sub 15-pin connector signal

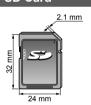


Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	
1	R	6	GND (Ground)	11)	NC (not connected)	
2	G	0	GND (Ground)	12	NC (not connected) HD	
3	В	8	GND (Ground)	13		
4	NC (not connected)	9	NC (not connected)	(14)	VD	
5	GND (Ground)	10	GND (Ground)	(5)	NC (not connected)	

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 or USB device is inserted correctly. 			
No valid file to play	The device has no data.			
This operation is not possible	Your operation is not available.			
Removed Device	 When drive selected (primary) device is removed and secondary device still connected. 			



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.

Technical Information Maintenance

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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. 22) 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.

"VIERA Link" function does not work and an error message appears

- Confirm the connection.
- Turn the connected equipment on and then switch the TV on. (p. 39)



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 make dightly when it is pushed.

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

 This is a characteristic of liquid crystal panels and is not a problem. The liquid crystal panel is built with very high precision technology giving you fine picture details.

Occasionally, a few non-active pixels may appear on the screen as a fixed point of red, green, blue or black

Please note this does not affect the performance of your LCD, and it is not a quality problem.







	Problem	Actions				
	Chaotic image, noisy	 Change the setting of "P-NR" in the Picture Menu (to remove noise) (p. 22). Check nearby electrical products (car, motorcycle, fluorescent lamp). 				
Screen	No image can be displayed	 Is "Colour" or "Contrast" in the Picture Menu set to the minimum? (p. 22) 				
Š	Blurry or distorted image (no sound or low volume)	Reset channels (p. 27).				
	Unusual image is displayed	 Turn off the TV with Mains power On / Off switch, then turn it on again. 				
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. 23).				
НОМІ	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. 23). If digital sound connection has a problem, select analogue sound connection (p. 48). 				
_	Pictures from external equipment are unusual when the equipment is connected via HDMI	 Is the HDMI cable connected properly? (p. 39, 44, 45) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment (p. 49). Use an equipment compliant with EIA/CEA-861/861B. 				
	TV goes into Standby mode	 Auto power standby function is activated. The TV enters Standby mode about 30 minutes after broadcasting ends. 				
Other	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 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. 				

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Technical



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- VGA is a trademark of International Business Machines Corporation.
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- HDAVI Control™ is a trademark of Panasonic Corporation.
- Macintosh is a trademark of Apple Inc.
- "AVCHD" and the "AVCHD" logo are trademarks of Panasonic Corporation and Sony Corporation.



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Specifications

	-		TIL I 400001	,				
			TH-L42S20K TH-L42S201		TH	-L42S20M	TH-L42S20R	
Power Source		rce	AC AUTO 110-240 50 / 60 Hz	V,	AC 110-240 V, 50 / 60 Hz		AC Single 220-240 V, 50 / 60 Hz	
Average use 1 Standby condition 0			194 W	194 W			185 W	
Consu	Standl	by condition	0.4 W					
	Aspec	t Ratio	16:9					
Display panel	Visible	screen size	106 cm (diagonal) 930 mm (W) × 523 mm (H)					
□	Numbe	er of pixels	2,073,600 (1,920 (W) × 1,080 (H))					
þι	Speak	er	160 mm × 40 mm ×	2 pcs, 8	3 Ω			
Sound	Audio	Output	20 W (10 W + 10 W	/), 10%	THD			
ŭ	Headp	hones	M3 (3.5 mm) stered	mini Ja	ck × 1			
PC signals			VGA, SVGA, WVGA, XGA SXGA, WXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz					
			17 Systems	Fund	ction	17 Systems	Function	
Receiving Systems / Band name			4 SECAM B, G 5 SECAM D, K 6 SECAM K1 R	L B, G, H L I L D, K CAM B, G CAM B, G CAM K1 CAM K		8 NTSC 4.43/5.5 N 9 NTSC 4.43/6.0 N 10 NTSC 4.43/6.5 N 11 NTSC 3.58/5.5 N 12 NTSC 3.58/6.0 N 13 NTSC 3.58/6.5 N 14 SECAM I	Hz Hz Hz Hz VCR's or DVD	
			7 N.S.C.W. (N.S.C.) 15 PAL 60 Hz/5.5 M 16 PAL 60 Hz/6.0 M 17 PAL 60 Hz/6.5 M 17 PAL 60 Hz/6.5 M 18 PAL 60 Hz/6.5 M 19 PAL 60 Hz/6.5 M			Hz Players and Special VCR's		
Receiving Channels (Regular TV)			PAL B/G 2-12 (PAL/SECAM B, K1) 0-12 (PAL B AUST.) 1-9 (PAL B N.Z.) 1-12 (PAL/SECAM D) 1-12 (PAL/SECAM D) 1-12 (NTSC M Japan) 1-13 (NTSC M Japan) 1-14 (NTSC M Japan) 1-15 (NTSC M Japan) 1-15 (NTSC M Japan) 1-16 (NTSC M Japan) 1-17 (NTSC M Japan) 1-18 (NTSC M Japan) 1-19 (NTSC M Japan)			S1-S20 (OSCAR) 1-125 (USA CATV) C13-C49 (JAPAN) S21-S41 (HYPER) Z1-Z37 (CHINA)		
Aori	al - Rea	ır.	2-13 (NTSC M USA) 14-69 (NTSC M USA) 5A, 9A (AUST.)					
		Conditions	VHF / UHF Temperature : 0 °C - 40 °C Humidity : 20 % - 80 % RH (non-condensing)					
		AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]					
	AV1 VIDEO		RCA PIN Type × 1 1.0 V[p-p] (75 Ω)					
<u>v</u>	Input	COMPONENT	Y P _B /C _B , P _R /C _R	1.0	V[p-p] (including synchronization) 35 V[p-p]			
na	AV2	AUDIO L - R	RCA PIN Type × 2		V[rms]			
Connection Terminals	Input	VIDEO	RCA PIN Type × 1		V[p-p] (75	Ω)		
Ter	AV3	AUDIO L - R	RCA PIN Type × 2		V[rms]			
Ę	Input	VIDEO	RCA PIN Type × 1		V[p-p] (75			
ij	Monitor	AUDIO L - R	RCA PIN Type × 2	0.5	V[rms] (hig	jh impedance)		
Je	Output	VIDEO	RCA PIN Type × 1	1.0	V[p-p] (75	Ω)		
Ī		HDMI1 - 3 Input	TYPE A Connectors			ports "HDAVI Cor	ntrol 5" function.	
ၓ	Others	PC Input	HIGH-DENSITY D-SUB 15PIN		p-p] (75 Ω) evel 2.0 - 5.0 V[p-	p] (high impedance)		
		Card slot	SD Card slot × 1					
USB			USB 2.0 Type A connector × 1					
Dim	ensions	s (W×H×D)	1,021 mm × 680 mm × 310 mm (With Pedestal) 1,021 mm × 637 mm × 115 mm (TV only)					
Mass			21.0 kg Net (With Pedestal) 18.0 kg Net (TV only)					

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

TH-L42S20KMRT_EN.indd 55



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

Model Number

Serial Number

Panasonic Corporation

Web Site: http://panasonic.net

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