

Operating Instructions Plasma Television

Model No. TH-42PV8AZ



English

VIECA



VIECA Link

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



media excitement





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Enjoy your TV!

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FAQs, etc.

FAQs, etc.

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.
- Ensure the earth pin on the mains plug is securely connected to prevent electrical shock.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not use any mains lead other than that provided with this TV. (This may cause fire or 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 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. Úse approved pedestals / mounts (p. 6).

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.

 Transport only in upright position
 Transporting the TV with its display panel facing upright or downward may cause damage to the internal circuitry.

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.

laintenance

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 (1 part detergent to 100 parts 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.
- Take care not to subject the surface to insect repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet. Pedestal

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

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

Mains plug

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

Notes

Do not display a still picture for a long time

This causes the image to remain on the plasma screen ("image retention").

This is not considered a malfunction and is not covered by the warranty.

- Typical still images
- Programme number and other logos
- Image displayed in 4:3 mode
- Video game
- Computer image



To prevent image retention, contrast is lowered automatically after a few minutes if no signals are sent or no operations are performed. (p. 41)

Auto power standby function

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

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

Accessories / Options



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



- Carefully read the instructions accompanying the pedestal, and be absolutely sure to take steps to prevent the TV from tipping over.
- Handle the TV carefully during installation since subjecting it to impact or other forces may cause product damage.



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.

Attaching the pedestal

Warning

Do not disassemble or modify the pedestal.

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

Caution

Do not use any other TV and displays.

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

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

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

During 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 four assembly screws (A) to fasten the left and right poles to the base securely.

- Make sure that the screws are securely tightened. Forcing the assembly screws the wrong way will strip the threads.
- "L" or "R" mark is stamped on the bottom of the pole.



Securing the TV

Use the assembly screws (B) to fasten securely. Make sure that the screws are securely tightened. Carry out the work on a horizontal and level surface.

View from the bottom

Accessories / Options

Using the clamper



Identifying Controls



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. When disconnecting the mains lead, be absolutely sure to disconnect the mains plug at the socket outlet first.

Example 1 **Connecting aerial**

TV only



Example 2 **Connecting DVD Recorder / VCR TV, DVD Recorder or VCR** Rear of the TV Aerial AC 220-240 V. 50 / 60 Hz C 个 Mains lead (supplied) ANT нат 0 ۲ e T . ۲ RF cable RCA cable Ĝ AUDIO VIDEO

RF OUT

(G

RF IN

RF cable

OUT

DVD Recorder or VCR

OUT

Note

- Mains plug types vary between countries.
 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. 32
- Read the manual of the equipment too.

Example 3 Connecting DVD Recorder / VCR and Set top box

TV, DVD Recorder / VCR and Set top box

Rear of the TV



Auto Tuning

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



Auto Tuning is now complete and your TV is ready for viewing.

• To edit programmes

➡ "Editing Programmes" (p. 24)



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Note

- If tuning has failed ➡ "Auto Tuning" (p. 27)
- If you turned the TV Off during Standby mode last time, the TV will be in Standby mode when you turn the TV On with Mains power On / Off switch.



Other useful functions

Hold	Freeze / un	freeze picture	HOLD		
Display the selectable settings for the current programme	Check or ch programme CH Colour Se Adjusts the col → Picture Men Teletext Chara Sets the telete → Setup Menu Note ● Also possible	t our density u (p. 22) acter Set xt language (p. 23) e to change the settings in Men	OPTION To change Contraction Adjusts volume of individual programme or input mode To change (1) select To change (1) select (2) change (1) select To change (1) select (2) change (2) change (1) select (2) change (2) change (1) select (2) change (2) change (1) select (2) change (2) change (2) select (2) change (2) select (2) change (2) select (2) se		
	Turn the TV off automatically after a fixed period				
Off Timer	Display the menu MENU	Select "Setup" VIII Main Menu Picture Sound E Setup Cot to "Off" or turn the TV off	Select "Off Timer" and set the time		
	 To cancel To display th When the re 	Set to "Off" or turn the TV off. le remaining time ⇒ Information maining time is within 3 minutes	n banner (p. 15) s, the remaining time will flash on screen.		

Other useful functions



External input: Aspect mode can be memorized separately for each input mode.

Watching TV

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 $\stackrel{R}{\frown}$ $\stackrel{G}{\frown}$

To select among subject blocks ⇒ ^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. 23)



HOLD	Stop automatic updating (If you wish to hold the current page without updating) HOLD HOLD HOLD
INDEX	Return to the main index page
Call up a favourite page	F.P. • Call up the page stored in "blue". • Factory setting is "P103".
	Watch TV and Teletext in two windows at once
View in multi window	MENU (Press twice) Select Picture and text On or Off
	Operations can be made only in Teletext screen.
	Store frequently viewed pages in the colour bar (List mode only)
Store frequently viewed	As page is Corresponding Colour button Press and hold Broadcast
pages	Enter new page number Colour button you want to change Enter new page number Colour button you Want to change Colour button you Want to c
	View sub page (Only when teletext is more than one page)
	<01 02 03 04 05 Appears at top of the screen
View sub	■ To view specific sub page
page	→ MENU B Broadcast → Enter the 4-digit number example: P6
	• Sub pages: The number of sub pages varies depending on the broadcasters (up to 79 pages). It may take some time for searching, during which time you can watch TV.
Watch	View the TV picture while searching for a teletext page Teletext automatically updates itself when new information becomes available. Changes to TV screen temporarily
TV while waiting for update	MENU Y Y Y View the updating is completed Y View the updated page
	(You cannot change the programme.) ● The news page provides a function that indicates arrival of latest news ("News Flash").

Watching Videos and DVDs

Connect the external equipment (VCRs, DVD equipment, etc.) and you can watch the input. ● To connect the equipment ⇒ p. 10 and p. 11 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.

	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
	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/Þ	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 our during the following operations

1 2 3 Enter the appropriate code for the equipment $456 \rightarrow Press$ to be controlled, see table below 7 8 9

"VCR" position		"DVD" position	
Equipment	Code	Equipment	Code
VCR	10 (default)	DVD	70 (default)
DVD	11	Plaver 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.

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					
R	Direct TV Rec	convenient recording, playback, etc. (p. 33 - 35)				
	VIERA Link Control	 You can also access VIERA Link Menu directly using the VIERA Link button on the remote control. 				
nk	Speaker Selection					
	Menu	Basic picture mode (Dynamic / Standard / Cinema) 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 Set for each input signal				
	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 60Hz (Component / HDMI) input signal reception only				
	Colour Temperature	Allows you to set the overall colour tone of the picture (Cool / Standard / Warm)				
Pictu	CH Colour Set	Colour density varying between broadcast programmes can be adjusted to three levels for each reception programme Select the programme you want to adjust and set this function				
re	Colour Management	Automatically adjusts colours to vivid ones (Off / On) • Not valid on PC signal				
	P-NR	Picture Noise Reduction Automatically reduces unwanted picture noise and flicker noise in the contoured parts of a picture (Off / Weak / Mid / Strong) ● Not valid on PC signal				
	3D-COMB	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 and HDMI				
	Reset to Default	Press the OK button to reset the present Picture Menu on all inputs to default settings				
	Menu	Basic sound mode (Music / News / Cinema) ● Set for each input signal				
	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				
So	Surround	Surround sound settings (Off / On) Provides a dynamic enhancer to simulate improved spatial effects				
nn	Volume Correction	Adjusts volume of individual programme or input mode				
Q	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.				
	HDMI1 Input	Select to fit the input signal (Auto / Digital / Analogue) (p. 39) 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 to Default	Press the OK button to reset the present Sound Menu to the default settings				

Menu list

Menu	u Item		Adjustments / Configurations (alternatives)
	AV Colour System		Selects optional colour system based on video signals in AV mode (Auto / PAL / SECAM / NTSC4.43 / NTSC3.58)
	Colour Matrix		Available only with 480p or 576p input signals in a natural colour from digital equipment connected to AV1 / AV2 Component or HDMI1 / HDMI2 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
	Service List Edit		Skips the unwanted programmes or edits programmes (p. 25)
	Child Lock		Locks a programme / AV input to prevent access to it (p. 28)
	E Channel Selection		Selects the most easily viewed programme selection method (Position / Direct) (p. 27)
	ng M	Auto Tuning	Automatically sets the programmes received in the area (p. 27)
	lenu	Manual Tuning	Sets the programmes manually (p. 27)
	Off	Timer	Sets the time the TV automatically turns Off (Off / 15 / 30 / 45 / 60 / 75 / 90 minutes)
-	OS	D Language	Changes language for on-screen displays
	Teletext		Teletext display mode (TOP (FASTEXT) / List) (p. 16)
	Tel	etext Character Set	Select teletext language (English / CIS / E.Europe / Persian)
	Shipping Condition		Resets all settings, for example, when moving house (p. 29)
S	Power Save		Reduces brightness of picture to economise on power consumption (Off / On)
etup	Side Panel		Increases the brightness of the side panel (Off / Low / Mid / High) The recommended setting is "High" to prevent panel "image retention"
0	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.
	Inp	ut Labels	Labels or skips each input terminals (p. 30)
	Banner Display Timeout		Sets how long the information banner (p. 15) 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. 32)
	Link S	Power off Link	Sets to use Power off Link function (No / Set) (p. 32)
	ettings	Power on Link	Sets to use Power on Link function (No / Set) (p. 32)
	Refresh Rate		Changes the image processing of the panel (depending on the input signal) (50Hz / 100Hz) • Set to "100Hz" normally
	So	ftware Licence	Displays the software licence information
	Sys	stem Information	Displays the system information of this TV

A different menu will be displayed while PC is used. (p. 31)
 Only available items can be selected.

Editing Programmes

You can skip unwanted programmes or edit programmes.





Tuning Programmes

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





Control Programme Audience

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



Restore Settings

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



Advanced

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





Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV. You can also listen to PC sound with the audio cable connected. ■ To connect PC ⇒ p. 36



⇒ TV

PC menu setting (changed as desired)

Menu	lt	em	Adjustments / Configurations (options)
		W/B High R	White balance of bright red area
Pic		W/B High B	White balance of bright blue area (1) and (2)
	Advanced	W/B Low R	White balance of dark red area
tur	PC Settinas	W/B Low B	White balance of dark blue area
O	ee	Gamma	(S Curve / 2.0 / 2.2 / 2.5)
		Reset to Default	Press the OK button to reset to the default Picture settings
		Input Resolution	 Switches to a wide view VGA (640 × 480 pixels), WVGA (852 × 480 pixels), XGA (1,024 × 768 pixels), WXGA (1,366 × 768 pixels) Options change depending on signals
Setup		Clock	Set to the minimum level if noise occurs
		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 G) H & V : Horizontal and Vertical sync from your PC (Most common sync format) On G : Sync on Green sync from your PC
		Reset to Default	Press the OK button to reset to the default Setup settings

Other items
p. 22 and p. 23

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
- Some functions are not available depending on the equipment oversion of H2/W control.
 VIERA Link "HDAVI Control", based on the control functions provided by HDMI which is an industry standard known as HDMI CEC (Consumer Electronics Control), is a unique function that we have developed and added. As such, its operation with other manufacturers' equipment that supports HDMI CEC cannot be guaranteed.

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

Summary of VIERA Link functions



- 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. 20-21, 23)

Set up the TV - After connection, turn the equipment on and then switch the TV on. Select the input mode to HDMI1 or HDMI2 (p. 18), 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 on Link" (p. 20-21, 23) When the connected equipment starts playback or direct navigator / function menu for the equipment are activated, the TV is automatically turned on. (Only when TV is in Standby mode.)
Power off link	 Set Power off Link "Set" in Setup Menu to use this function "Power off Link" (p. 20-21, 23) When TV is set to Standby mode, the connected equipment is also automatically set to Standby. This function will work even if the TV enters standby mode automatically by Off Timer function or auto power standby function.

● VIERA Link "HDAVI Control™"

Advanced



VIERA Link "HDAVI Control™"

Features available (Using VIERA Link Menu)



of the

remote

contro

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.

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. 43).



Amplifier with speaker system

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

O: Recommended Connection



External Equipment

Technical Information

Programme Allocation

Channel Plan	China	Hong Kong	Asia/M.East	NZ / Indonesia	Indian CATV	CIS / E.Europe	South Africa	American System	American CATV	Japan
CH DISPLAY					Receive p	rogramme				
0 1 2 3 4 5 6 7 11 12 13 14 15 16 19 20	- 12 		- 2 	- 12 - - - - - - - -	- 1 2 3 4 S'1 S'3 S1 S2 S3 S4 	- 12 	- 1 2 - - - - - - - - - -	- 2 3 13 14 3		- 1 2
$egin{array}{c} 21 \\ 22 \\ 23 \\ 24 \\ 28 \\ 57 \\ 58 \\ 59 \\ 62 \\ 63 \\ 69 \end{array}$	> 57 - - - - -	21 } 62 63 69	21 	21 	6 ~ 12 S11 ~ S40 S41 21 ~ 24 25 ~ 31	21 	21 	62 63 69	62 63	62 C13
70	- - - - - - - -	- - S'1 S'2 S'3 - - -	- - S'1 S'2 S'3 - -	- - S'1 S'2 S'3 - -	32	- - S'1 - - - -	- - S'1 S'2 S'3 - -	- - - - - - - -		
80 81 2 89	_ Z1 ~ Z9	S1 S2 ~ S10	S1 S2 ∼ S10	S1 S2 { S10	42 { 51	S1 S2 ~ S10	S1 S2 { S10			
90 91 92 93 94 95 96 97 98 99	Z10 Z11 Z12 Z13 Z14 Z15 Z16 Z17 Z18 Z19	S11 S12 S13 S14 S15 S16 S17 S18 S19 S20	S11 S12 S13 S14 S15 S16 S17 S18 S19 S20	S11 S12 S13 S14 S15 S16 S17 S18 S19 S20	52 } } 61	S11 S12 S13 S14 S15 S16 S17 S18 S19 S20	- S14 S15 S16 S17 S18 S19 S20	- - - - - - - - - - - -	99	C49
100 2 107 117 118 2 120 2 125	Z20 } Z37 - - - - -	S21	S21 } S41 -	S21 } S41 -	62 69 70 - - - -	S21 	S21 } S41 -	- - - - - - - - - -	100	- - - - - - -

HDMI connection

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

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

About connections, see "External Equipment" (p. 36).

• HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.

If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (*2).

• When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal (HDMI1: use AV2 IN AUDIO terminals).

Audio settings can be made on the "HDMI1 Input" menu screen. (p. 22)

- 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. 40.

(*1): The HDMI logo is displayed on HDMI-compliant equipment.

(*2): Enquire at your local digital equipment retailer shop.

Stereo / Bilingual Sound Selection

 $\underline{\infty}/\underline{\nabla}$ When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the I/I Stereo / Bilingual Sound Selection button.

Audio Signal	STEREO	MAIN I	SUB I	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 $\dashrightarrow \nabla$		$\bigcirc \dashrightarrow \bigtriangledown$	I → I ↓ ▽ ↓

A2(German)Used in Australia, Malaysia etc.

Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN I / SUB II	STEREO
Mode Indicator	No Indicator	I 🕶 I	$\bigcirc \nleftrightarrow \nabla$

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

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	768 × 768 pixels
Aspect	16:9	1.024 × 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)	(1)	NC (not connected)
	2	G	\bigcirc	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)
<u> </u>						

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 (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

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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.

An error message appears

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

authorized Service Centre.

"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. 32)

Permanently lit spots on screen

 Due to production process involved in this technology this may result in some pixels which are permanently lit or unlit. This is not a malfunction.

Contrast is reduced

 Contrast is lowered in the following conditions without any user operation for a few minutes:

- no signal in AV mode
 sologiad looked program
- selected locked programme
 selected invalid programme
- selected invalid prograf
 displayed menu
- displayed menu

FAQs, etc

FAQs

	Problem	Actions
Screen	Chaotic image, noisy	 Set "P-NR" in the Picture Menu (to remove noise). (p. 22) 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. 22) Check Colour System. (p. 27) Check AV Colour System. (p. 23)
	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.
Sound	No sound is produced	 Is "Sound mute" active? (p. 9) Is the volume set to the minimum?
	Sound level is low or sound is distorted	 Sound signal reception may be deteriorated. Check Sound system. (p. 27)
H	Sound is unusual	 Set the sound setting of the connected equipment to "2ch L.PCM". Check the "HDMI1 Input" setting in the Sound Menu. (p. 22) If digital sound connection has a problem, select analogue sound connection. (p. 39)
M	Pictures from external equipment are unusual when the equipment is connected via HDMI	 Is the HDMI cable connected properly? (p. 36) Turn Off the TV and equipment, then turn them On again. Check an input signal from the equipment. (p. 40) Use an equipment compliant with EIA/CEA-861/861B.
Other	TV goes into "Standby mode"	 Off Timer function is activated. The TV enters "Standby mode" about 30 mins. after broadcasting ends.
	The remote control does not work	 Are the batteries installed correctly? (p. 6) Has the TV been switched On?

Specifications

Power Source		се	AC 220-240 V 50 / 60 Hz
Power Consumption	Power rating		335 W
	Standby condition		0.7 W
pa Di	Aspect Ratio		16:9
splay nel	Visible screen size		106 cm (diagonal)
			922 mm (W) × 518 mm (H)
	Number of pixels		786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]
So	Speaker		160 mm × 42 mm × 2 pcs, 8 Ω
ůn	Audio Output		20 W (10 W + 10 W), 10% THD
d	Headphones		M3 (3.5 mm) stereo mini Jack × 1
PC signals			VGA, SVGA, XGA SXGA ······ (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz
			17 Systems Function 17 Systems Function
Receiving Systems / Band name			1 PAL B, G, H 2 PAL I 3 PAL D, K 4 SECAM B, G 5 SECAM D, K 10 NTSC 4.43/5.5 MHz 11 NTSC 4.43/5.5 MHz 12 NTSC 4.43/6.5 MHz 13 NTSC 4.43/6.5 MHz 14 SECAM D, K 15 SECAM K1 7 NTSC M (NTSC 3.58/4.5 MHz) Recorders
Receiving Channels (Regular TV)			VHF BAND UHF BAND CATV 2-12 (PAL/SECAM B, K1) 21-69 (PAL G, H, I/SECAM G, K, K1) S1-S20 (OSCAR) 0-12 (PAL B AUST.) 28-69 (PAL B AUST.) 1-125 (USA CATV) 1-9 (PAL B N.Z.) 13-57 (PAL D, K) C13-C49 (JAPAN) 1-12 (PAL/SECAM D) 13-62 (NTSC M Japan) S21-S41 (HYPER) 1-12 (NTSC M Japan) 14-69 (NTSC M USA) Z1-Z37 (CHINA)
Acricl Deer			
Operating Conditions		onditions	Temperature : $0 ^{\circ}\text{C} - 40 ^{\circ}\text{C}$
Connectio	AV1 Input		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		VIDEO	$\frac{1}{10} \sqrt{\left[\frac{1}{10}\right] \left(\frac{1}{10}\right)^2}$
		COMPONENT	$\frac{1}{P_{P}/C_{P}} = \frac{1.0 \text{ V}[\text{p-p}]}{1.0 \text{ V}[\text{p-p}]} (\text{including Synchronization})$
	AV2 Input	VIDEO	RCA PIN Type x 1 = 0.0 V[m] (75.0)
erminals			Y 1.0 V[p-a] (including synchronization)
		COMPONENT	PB/CB. Pr/Cr ±0.35 V[p-p]
	AV3 Input AV4 Input	AUDIO L - R	RCA PIN Type × 2 0.5 V[rms]
S		VIDEO	RCA PIN Type × 1 1.0 V[p-p] (75 Ω)
		S VIDEO	Mini Din 4-pin Y:10 $V[p-n]$ (75 Ω) C:0 286 $V[p-n]$ (75 Ω)
		AUDIO L - R	
		VIDEO	RCA PIN Type x 1 10 V(n-n) (75 O)
		S VIDEO	Mini DIN 4-nin Y:1 0 \/[n-n] (75 O) C:0 286 \/[n-n] (75 O)
			$\frac{1}{1} \frac{1}{1} \frac{1}$
	Output	VIDEO	RCA PIN Type x 1 1 0 \/[n_n] (75 0)
		HDMI1 / 2 Input	TYPE A Connectors
	Others	nomin / 2 mput	HIGH-DENSITY D-SLIB 15PIN $P \subseteq P(0,7)/(n-n)/(75,0)$
		PC Input	HD, VD/TTL Level 2.0 - 5.0 V[p-p] (high impedance)
Card slot		Card slot	SD Card slot × 1 (Factory Use)
Dimensions (W × H × D)			1,020 mm × 727 mm × 327 mm (With Pedestal) 1,020 mm × 679 mm × 92.5 mm (TV only)
Mass			27.5 kg Net (With Pedestal) 25.5 kg Net (TV only)

Note

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

Licence

- VGA is a trademark of International Business Machines Corporation.
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WARRANTY - New Zealand only

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

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

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

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

NEW ZEALAND

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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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