Panasonic®





Operating Instructions High Definition Plasma Display

Model No. TH-42PHW6 TH-50PHW6



Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

English

Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new Plasma Display.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site

http://www.panasonic.co.jp/global/

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Important Safety Notice

WARNING:

- 1) To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture. Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)
- 2) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- 3) Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician. Do not defeat the purpose of the earthing plug.
- 4) This is a class A product. In a domestic environment this product may cause radio interference in which case you may be required to take adequate measures.

CAUTION

This appliance is intended for use in environments which are relatively free of electromagnetic fields. Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the picture and sound to wobble or cause interference such as noise to appear. To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.

To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

Safety Precautions

WARNING

Setup

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Matsushita Electric Industrial Co., Ltd.)

•	Speakers	TY-SP42P6W-S (TH-42PHW6)
		TY-SP50P6W-S (TH-50PHW6)
•	Pedestal	TY-ST42PA20
•	Wall stand	TY-ST42PW1
•	Mobile stand	TY-ST42PF3
•	Wall-hanging bracket (vertical)	TY-WK42PV1
	Wall-hanging bracket (angled)	
•	Ceiling unit	TY-CE42PS1
•	RCA Composite Video Terminal Board	TY-42TM6V
	RCA Component Video Terminal Board	

Always be sure to ask a qualified technician to carry out set-up.

Do not place the Plasma Display on sloped or unstable surfaces.

The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

• If water is spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult your local Panasonic dealer.

If using the pedestal (optional accessory), leave a space of at least 10 cm at the top, left and right, at least 6 cm at the bottom, and at least 7 cm at the rear. If using some other setting-up method, leave a space of at least 10 cm at the top, bottom, left and right, and at least 1.9 cm at the rear.

Avoid installing this product near electronic equipment that is easy to receive electromagnetic waves.

• It will cause interference in image, sound, etc. In particular, keep video equipment away from this product.

When using the Plasma Display

The Plasma Display is designed to operate on 220 - 240 V AC, 50/60 Hz. Do not cover the ventilation holes.

Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Do not stick any foreign objects into the Plasma Display.

Do not insert any metal or flammable objects into the ventilations holes or drop them onto the Plasma Display, as
doing so can cause fire or electric shock.

Do not remove the cover or modify it in any way.

• High voltages which can cause severe electric shocks are present inside the Plasma Display. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

Securely insert the power cord plug as far as it will go.

• If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket plate is loose, they shall not be used.

Do not handle the power cord plug with wet hands.

Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.

Do not damage the cable, make any modifications to it, place heavy objects on top of it, heat it, place it near any
hot objects, twist it, bend it excessively or pull it. To do so may cause fire and electric shock. If the power cable is
damaged, have it repaired at your local Panasonic dealer.

If the Plasma Display is not going to be used for any prolonged length of time, unplug the power cord plug from the wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odour starts to come out from the Plasma Display, immediately unplug the power cord plug from the wall outlet.

• If you continue to use the Plasma Display in this condition, fire or electric shock could result. After checking that the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing the Plasma Display yourself is extremely dangerous, and shall never be done.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet becomes damages, disconnect the power cord plug immediately.

 A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.



When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

Heated air comes out from the ventilation holes at the top of Plasma Display will be hot. Do not bring your hands
or face, or objects which cannot withstand heat, close to this port, otherwise burns or deformation could result.

Be sure to disconnect all cables before moving the Plasma Display.

• If the Plasma Display is moved while some of the cables are still connected, the cables may become damaged, and fire or electric shock could result.

Disconnect the power cord plug from the wall socket as a safety precaution before carrying out any cleaning.

• Electric shocks can result if this is not done.

Clean the power cable regularly to prevent it becoming dusty.

• If dust built up on the power cord plug, the resultant humidity can damage the insulation, which could result in fire. Pull the power cord plug out from the wall outlet and wipe the mains lead with a dry cloth.

This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment.

Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water to which a small amount of neutral detergent has been added, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the
 cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods
 in contact with articles made from rubber or PVC.

Trademark Credits

- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the video Electronics Standard Association.
 Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

Note:

Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Accessories

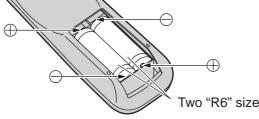
Accessories Supply

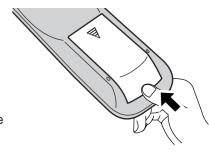
Check that you have the accessories and items shown Operating Instruction book Remote Control Batteries for the Remote Fixing bands Transmitter **Control Transmitter** Panasonic EUR646530 (2 × R6 Size) Ferrite core AC cord Ferrite core (small size) × 1 (large size) × 2 TH-50PHW6HZ TH-42PHW6AZ TH-50PHW6AZ

Remote Control Batteries

Requires two R6 batteries.

- 1. Turn the transmitter face down. Press and slide off the battery cover.
- 2. Install the batteries as shown in the battery compartment. (Polarity + or - must match the markings in the compartment.)
- 3. Replace the cover and slide in reverse until the lock snaps.





Helpful Hint:

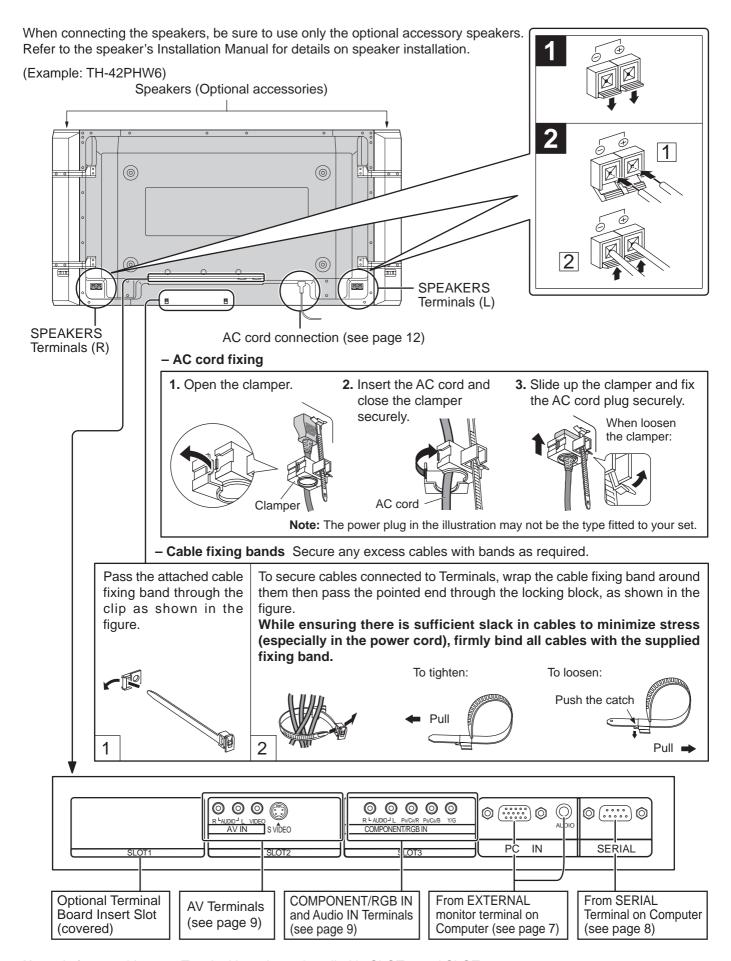
For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

Precaution on battery use

Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter. Observe the following precaution:

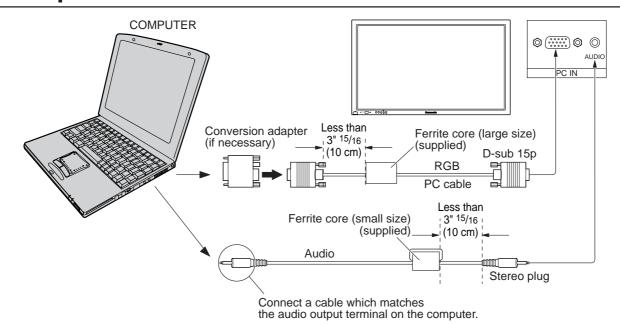
- 1. Batteries shall always be replaced as a pair. Always use new batteries when replacing the old set.
- 2. Do not combine a used battery with a new one.
- 3. Do not mix battery types (example: "Zinc Carbon" with "Alkaline").
- 4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
- 5. Battery replacement is necessary when remote control acts sporadically or stops operating the Plasma Display set.

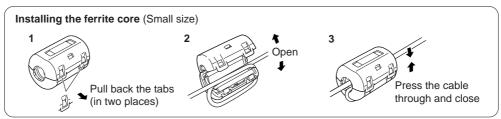
Connections

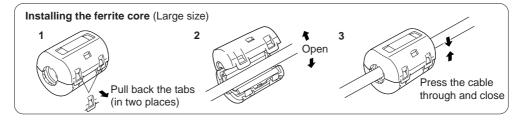


Note: At factory shipment, Terminal boards are installed in SLOT 2 and SLOT 3.

PC Input Terminals connection



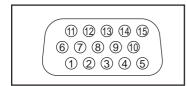




Notes:

- (1) Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- (2) The display resolution is a maximum of 768 × 768 dots (TH-42PHW6), 1,024 × 768 dots (TH-50PHW6) when the aspect mode is set to "4:3", and 1,024 × 768 dots (TH-42PHW6), 1,366 × 768 dots (TH-50PHW6) when the aspect mode is set to "16:9". If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
- (3) The PC input terminals are DDC1/2B-compatible. If the computer being connected is not DDC1/2B-compatible, you will need to make setting changes to the computer at the time of connection.
- (4) Some PC models cannot be connected to the set.
- (5) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.
- (6) The computer shown in the illustration is for example purposes only.
- (7) Additional equipment and cables shown are not supplied with this set.
- (8) Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- (9) Component Input is possible with the pin 1, 2, 3 of the D-sub 15P Connector.

Signal Names for D-sub 15P Connector

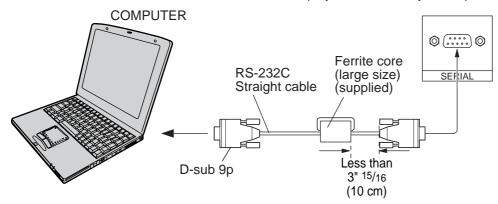


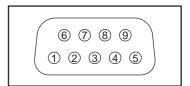
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
1	R (PR/CR)	6	GND (Ground)	11)	GND (Ground)
2	G (Y)	7	GND (Ground)	12	SDA
3	В (Рв/Св)	8	GND (Ground)	13	HD/SYNC
4	GND (Ground)	9	NC (not connected)	14	VD
5	GND (Ground)	10	GND (Ground)	15	SCL

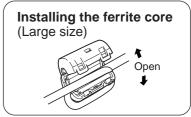
SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.





Pin layout for RS-232C



Notes:

- (1) Use the RS-232C cable to connect the computer to the Plasma Display.
- (2) The computer shown is for example purposes only.
- (3) Additional equipment and cables shown are not supplied with this set.

The SERIAL terminal conforms to the RS-232C interface specification, so that the Plasma Display can be controlled by a computer which is connected to this terminal.

The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

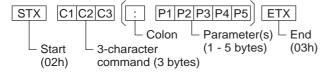
Communication parameters

Signal level	RS-232C compliant
Synchronization method	Asynchronous
Baud rate	9600 bps
Parity	None
Character length	8 bits
Stop bit	1 bit
Flow control	-

RS-232C Conversion cable		
D-sub 9-pin female	Details	
2	RXD	
3	TXD	
5	GND	
4 • 6	Non use	
⑦ ⑧	Shorted	
1 • 9	NC	

Basic format for control data

The transmission of control data from the computer starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, then the parameter signal does not need to be sent.



Notes:

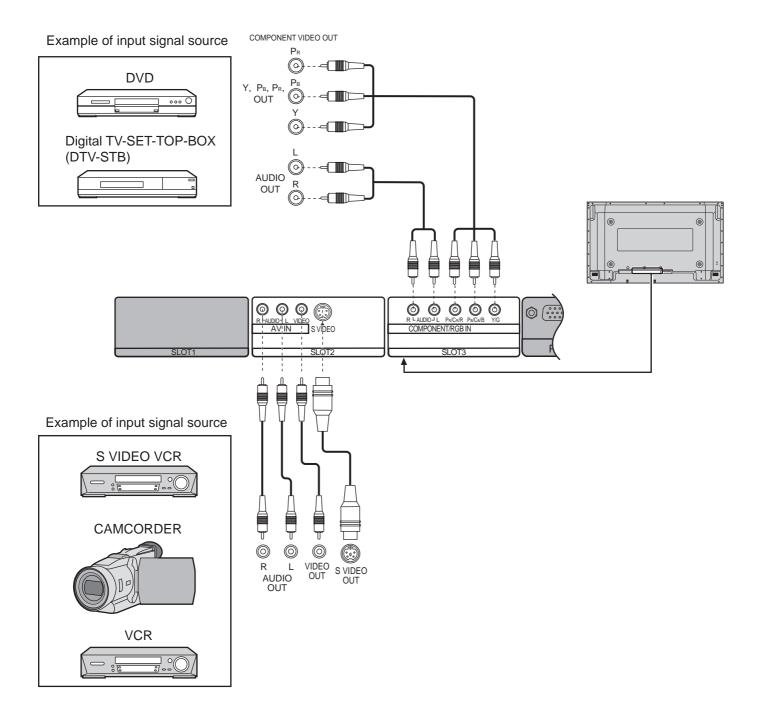
- (1) If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- (2) If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.

Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio mute OFF
AIVII	1	Audio mute ON
IMS	None	Input select (toggle)
	SL1	Slot1 input
	SL2	Slot2 input
	SL3	Slot3 input
	PC1	PC input
DAM	None	Screen mode select (toggle)
	NORM	4:3
	ZOOM	Zoom
	FULL	16:9
	JUST	Just
	SELF	Panasonic Auto

With the power off, this display responds to PON command only.

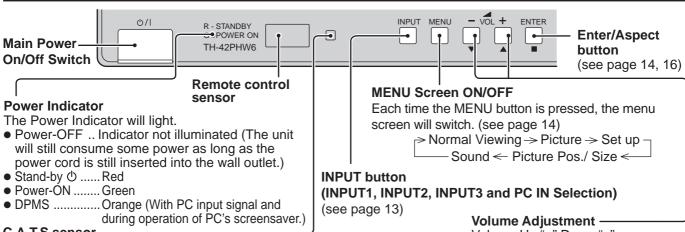
AV & COMPONENT connection



Notes

- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "Component". (see page 23)
- (2) Additional equipment, cables and adapter plugs shown are not supplied with this set.

Basic Controls



C.A.T.S sensor

Plasma C.A.T.S (Contrast Automatic Tracking System)

Plasma C.A.T.S automatically senses the ambient light conditions and adjusts the brightness and gradation accordingly, to optimise contrast. (Effective when Picture mode is set to Auto.)

Volume Up "+" Down "-" When the menu screen is displayed.

"+": press to move the cursor up

"-": press to move the cursor down (see page 14)

Status button

Press the "Status" button to display the current system status.



- 1) Input label
- 2 Aspect mode (see page 16)
- ③ Off timer

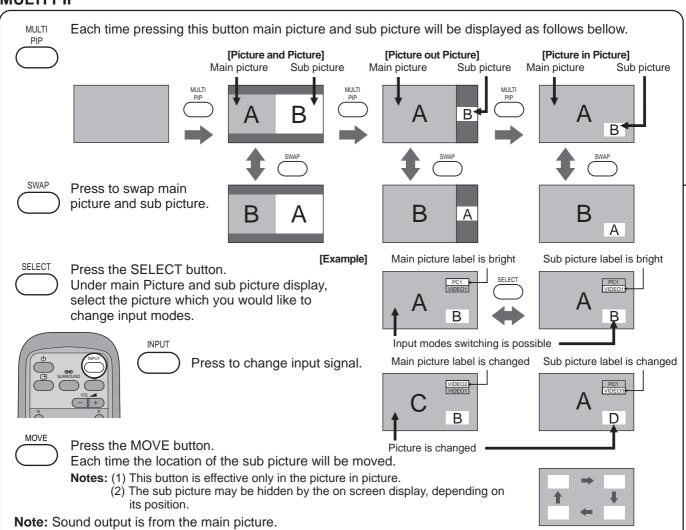
The off timer indicator is displayed only when the off timer has been set.

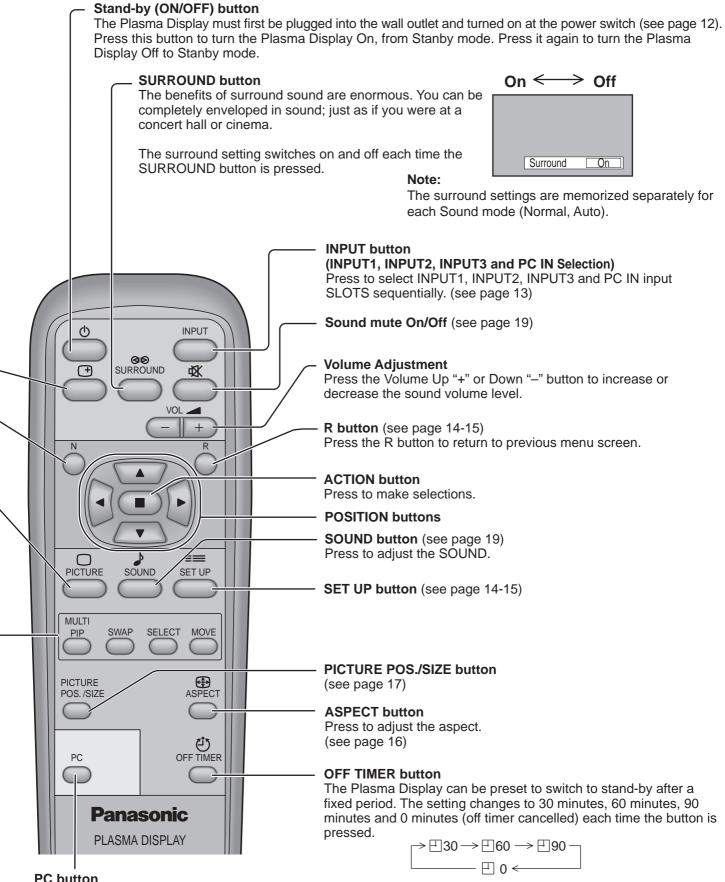
N button

(see page 17, 18, 19)

PICTURE button (see page 18)

MULTI PIP





PC button

Press the "PC" input mode selection button to select the PC input mode.

This button is used to switch directly to PC input mode.

When three minutes remain, "Off timer 3" will flash. The off timer is cancelled if a power interruption occurs.

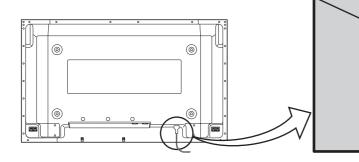
Note:

In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.

Power On/Off and input signal selection

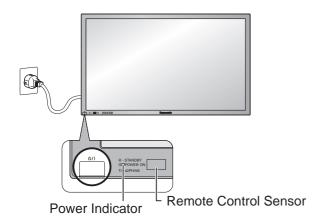
AC cord connection

Connecting the AC cord plug to the Plasma Display.



Fix the AC cord plug securely to the Plasma Display with the clamper. (see page 6)

Power On/Off



Connecting the plug to the Wall Outlet

Note:

Main plug types vary between countries. The power plug shown at left may, therefore, not be the type fitted to your set.

Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green

Example: The screen below is displayed for a while after the Plasma Display is turned on. (setting condition is an example.)

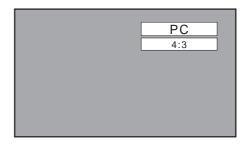
When the Power is turned on for the first time, the Language selection screen is displayed.

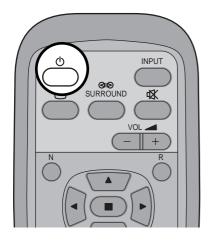
From the second time on, language selection can be done from the setup menu. (see page 13)

Select the desired language using the ▲ and ▼ keys and press the ACTION ■ button.



From the second time on, the below screen is displayed for a while (setting condition is an example).







Press the (b) button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

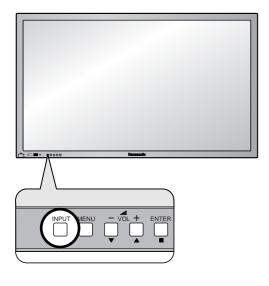
Press the () button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display set off by pressing the \circlearrowleft switch on the Plasma Display, when the Plasma Display is on or in standby mode.

Note: During operation of the power management function, the power indicator turns orange in the power off state.

Select the input signal





Press the INPUT button to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Input signals will change as follows:

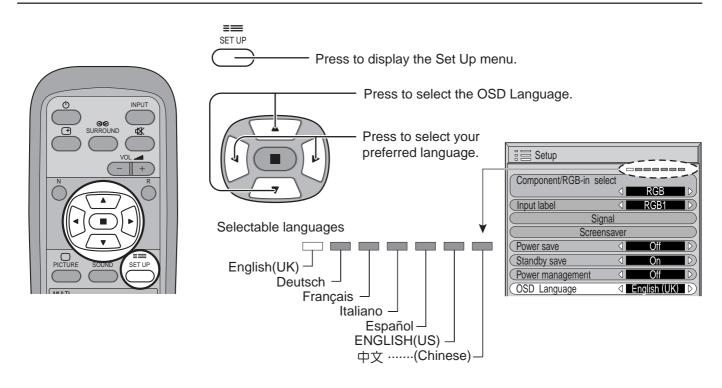
$$\rightarrow$$
 INPUT1 \rightarrow INPUT2 \rightarrow INPUT3 \rightarrow PC IN $-$



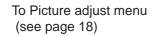
Notes:

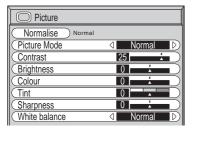
- Input terminal will not be selected if the terminal board is not installed into the SLOT.
- (2) Select to match the signals from the source connected to the component/RGB input terminals. (see page 23)
- (3) In 2 screen display, the same input mode cannot be selected for the main picture and sub picture.

Selecting the On-Screen Menu Language

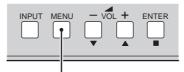


On-Screen Menu Displays



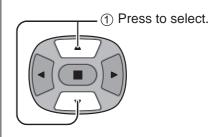


The MENU button on the unit can also be pressed.

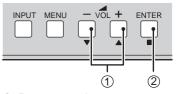


Each time the MENU button is pressed, the menu screen will switch.

Normal Viewing → Picture → Set up Sound ← Picture Pos./ Size ←

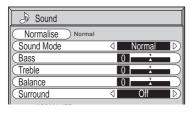


[from the unit]



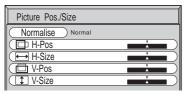
- 1 Press to select.
- ② Press to access each adjust screen.

To Sound adjust menu (see page 19)

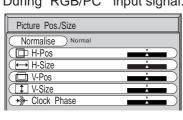


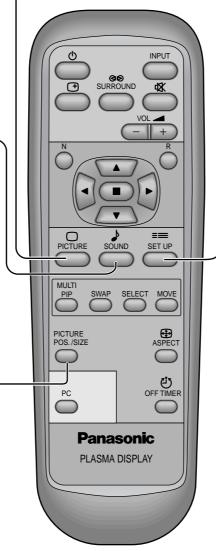
To Picture Pos./Size adjust menu (see page 17)

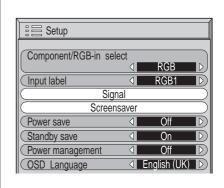
During "AV(S Video)" and "Component" input signal.

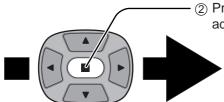


During "RGB/PC" input signal.







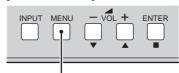


② Press to access each adjust screen.



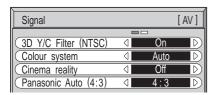
Press the R button to return to previous menu screen.





Press to return to previous menu screen.

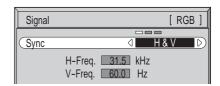
To Signal screen for AV(S Video) (see page 23, 24)



To Signal screen for Component (see page 24)

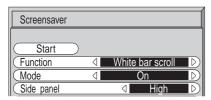


To Signal screen for RGB (see page 25)



Note: "Signal" setup menu displays different setting condition for each input signals. (see page 13)

To setup Screensaver (see page 20, 21)



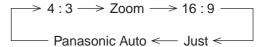
ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.



ASPECT button

The aspect mode changes each time the ASPECT button is pressed.



[from the unit]



The aspect mode changes each time the ENTER button is pressed.

[During MULTI PIP Operations]

(1) Picture and Picture, Picture in Picture : 4:3 -> 16:

(2) Others : Aspect switching is not possible.

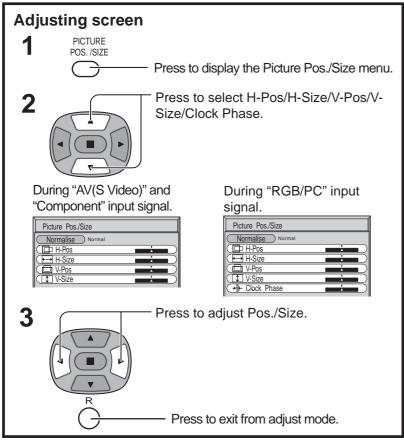
Notes:

- (1) For PC signal input, the mode switches between "4:3", "Zoom" and "16:9" only.
- (2) For a 1125 (1080) / 60i · 50i · 24p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p signal input during "Component" and "RGB" input signal, the mode is set to "16:9" mode, and switching is not possible. Panasonic Auto can be selected only during Video signal input.
- (3) The aspect mode is memorized separately for each input terminal (INPUT1, INPUT2, INPUT3 and PC IN).

Mode	Picture	Explanation
4:3	4:3	4:3 will display a 4:3 picture at its standard 4:3 size.
Zoom	3 → 16 Zoom 9	Zoom mode magnifies the central section of the picture.
16:9	4 — 16 — 16:9 — 9 — 9 — 9 — 16:9 — 9 — 16:9 — 9 — 16:9 — 9 — 16:9 — 9 — 16:9 — 16:9 — 9 — 16:	16:9 will display the picture at its maximum size but with slight elongation.
Just	4	Just mode will display a 4:3 picture at its maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.
Panasonic Auto	For an elongated image The parameter of the parameter	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. Note: Panasonic Auto mode is designed to automatically adjust the aspect ratio to handle a mix of 16:9 and 4:3 program material. Certain 4:3 program material, such as stock market data screens, may occasionally cause the image size to change unexpectedly. When viewing such programs, it is recommended that the ASPECT be set to 4:3.

Note: Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent afterimage to remain on the Plasma Display Panel.

Adjusting Picture Pos./Size





Notes:

 Adjustment details are memorized separately for different input signal

formats (Adjustments for component signals are memorized for 525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 50i · 24p· 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p each, and RGB/PC signals are memorized for each frequency.)

(2) If a "Cue" or "Rew" signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the Picture Pos./Size function.

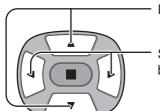
	When the Position Left "◄" button is pressed.	When the Desition Dight ">" button is pressed
H-Pos	When the Position Left button is pressed.	When the Position Right "▶" button is pressed
	When the Position Left "◄" button is pressed	When the Position Right "▶" button is pressed.
H-Size		+
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.
V-Pos		0 0
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.
V-Size		
Clock Phase (RGB/PC in Mode)	Flickering and distortion can be eliminated by to carry out adjustment.	using the Position Left "◀" or Right "▶" button

While the Picture Pos./Size display is active, if either the N button on the remote control is pressed at any time or the (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Picture Adjustments

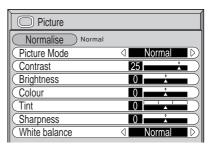


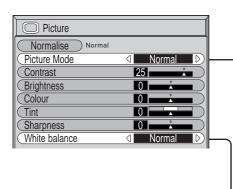
2 Select to adjust each item.



Press to select the menu to adjust.

Select the desired level by looking at the picture behind the menu.





Press the left ◀ or right ▶ button to switch between modes.

→ Normal ←→ Cool ←→ Warm ←

Press the left ◀ or right ▶ button to switch betwe	en
modes.	



Auto

Automatically selects the mode that best suits the brightness of the environment.

Normal

For viewing in standard (evening lighting) environments. This menu selects the normal levels of Brightness and Contrast.

Dynamic

For viewing in brighter environments.

This menu selects higher than normal levels of Brightness and Contrast.

Cinema

Ideal for movies.

Note:

If you would like to change the picture and colour of the selected Picture menu to something else, adjust using the items in the Picture menu. (see below)

Item	Ef	fect	Adjustments
Contrast	Less	More	Selects the proper brightness and density for the room.
Brightness	Darker	Brighter	Adjusts for easier viewing of dark pictures such as night scenes and black hair.
Colour	Less	More	Adjusts colour saturation.
Tint	Reddish	Greenish	Adjust for nice skin colour.
Sharpness	Less	More	Adjusts picture sharpness.

Notes:

- (1) "Colour" and "Tint" settings cannot be adjusted for "RGB/PC" input signal.
- (2) You can change the level of each function (Contrast, Brightness, Colour, Tint, Sharpness) for each Picture menu.
- (3) The setting details for normal, dynamic and cinema respectively are memorized separately for each input mode (INPUT1, INPUT2, INPUT3 and PC IN).
- (4) The "Tint" setting can be adjusted for NTSC signal only during "AV (S Video)" input signal.

Note:

In PICTURE, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

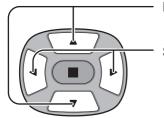
Helpful Hint (Normalise Normalisation)

While the "Picture" menu is displayed, if either the N button on the remote control is pressed at any time or the <a>(ACTION button)) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Sound Adjustment

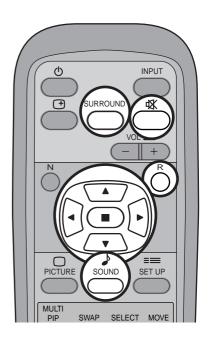
1 SOUND Press to display the Sound menu.

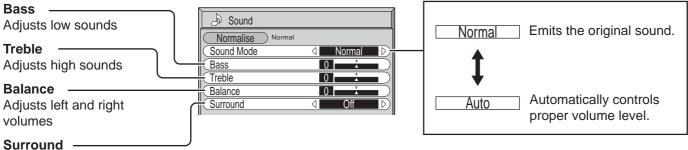
2 Select to adjust each item.



- Press to select the desired adjustment menu.

Select the desired level by listening to the sound.





• To end adjustments

Select On or Off



Note:

Press the SURROUND button to directly turn the surround effect On and Off. (see page 11) Bass, Treble and Surround settings are memorized separately for each Sound mode (Normal, Auto).

→ Helpful Hint (Normalise Normalisation)

While the "Sound" menu is displayed, if either the N button on the remote control is pressed at any time or the <a> (ACTION button)) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

Mute

Useful when answering the phone or receiving unexpected visitors.



Press this button to mute the sound.

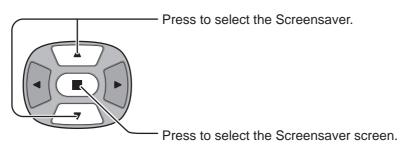
Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

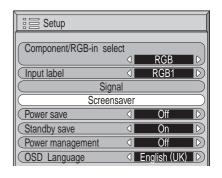
Screensaver (For preventing after-images)

Do not display a still picture, especially in 4:3 mode, for any length of time. If the display must remain on, a Screensaver should be used.



2





White bar scroll

Off

Screensaver

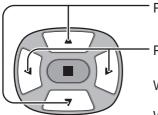
Start Function

Mode

Side panel

Reversal / Scroll selection

3



Press to select the Function.

Press to select the desired function.

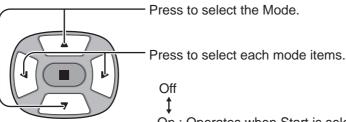
White bar scroll \longleftrightarrow Image Reversal

White bar scroll : The white bar will scroll from left to right.

Image Reversal : Negative image will be displayed on the screen.

Mode selection

4

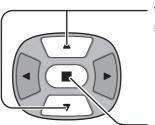




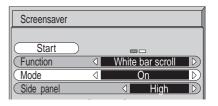
On: Operates when Start is selected and the (ACTION) is pressed.

Start setting

5



When the Mode is set to On, press to select Start.



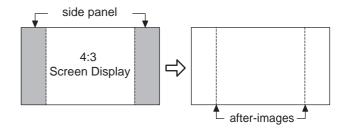
Press to start Screensaver.

The menu screen will disappear and the Screensaver will be activated. To stop the Screensaver under On, press the $^{\circ}$ button.

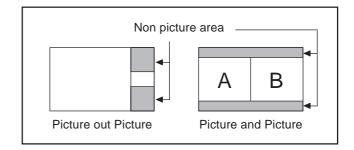
Side Panel Adjustment

Do not display a picture in 4:3 mode for an extended period, as this can cause an after-image to remain on the side panels either side of the display field.

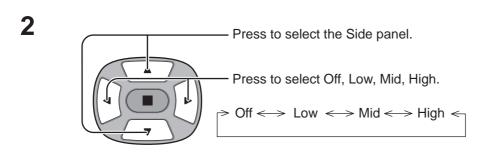
To prevent the appearance of such an after-image, illuminate the side panels.

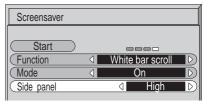


This function may be applicable to the non-picture area.



To display the Screensaver screen.
(Refer to the previous page, operation guide steps 1 and 2)







Notes:

- Setting the side panel to High mode for an extended period may result in occurrence of after-images.
- The side panels may flash (alternate black/white) depending on the picture being shown on the screen. In such an occurrence, use the Cinema mode.

Reduces power consumption

• Power save: When this function is turned On, luminous level of the plasma display is suppressed, so

power consumption is reduced.

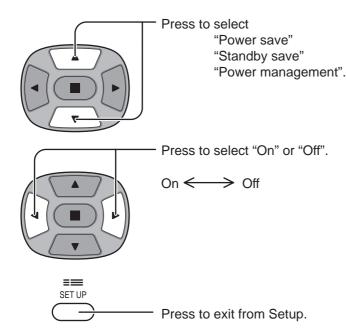
• Standby save: When this function is turned On, power consumption of the microcomputer is reduced during

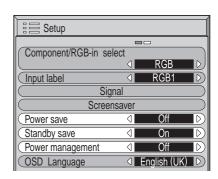
power supply standby (see page 10, 11, 12), so standby power of the set is reduced.

• Power management: The unit power supply is turned On or Off depending on whether or not there is a signal

during PC input mode.

This function is enabled when it is turned On. (Only during input from PC (MiniD-sub) terminal)



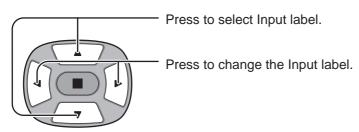


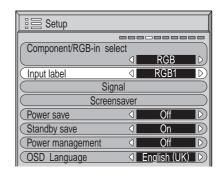
Note:

"Power management" and "Auto power off" are effective during normal viewing (one picture screen) only.

Customizing the Input labels

This function can change the label of the Input signal to be displayed.





Notes:

While selecting an Input signal through Optional Terminal Board connected to Slot1 to Slot3, the Input label will depend on each Optional Terminal Board.

Input labels for Slot1 to Slot3 and miniD-sub:

[Slot1 Input] INPUT1/VIDEO1/COMPONENT1/RGB1/RGB1(digital)/PC1/DVD1/CATV1/VCR1/STB1 [Slot2 Input] INPUT2/VIDEO2/COMPONENT2/RGB2/RGB2(digital)/PC2/DVD2/CATV2/VCR2/STB2

[Slot3 Input] INPUT3/VIDEO3/COMPONENT3/RGB3/PC3/DVD3/CATV3/VCR3/STB3

[PC (MiniD-sub) input] PC/COMPONENT/RGB/DVD/STB

Setup for Input Signals

Component/RGB-in select

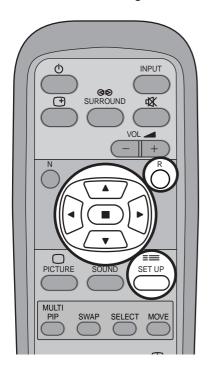
Select the input signals to be connected by installing the Optional Terminal Board.

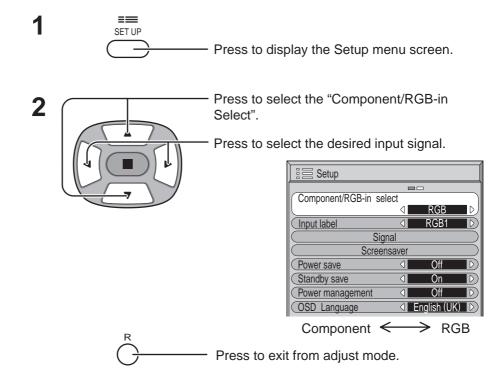
(Refer to the Operating Instructions for the Optional Terminal Board.)

Select to match the signals from the source connected to the Component/RGB input terminals.

Y, PB, PR signals ⇒ "Component"

R, G, B, HD, VD signals ⇒ "RGB"



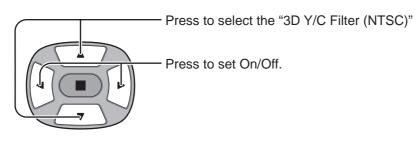


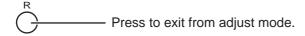
Note:

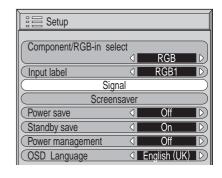
Selection may not be possible, depending on which optional board is installed.

3D Y/C Filter - For NTSC AV images

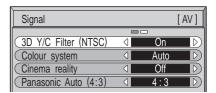
Select "Signal" from the "Setup" menu during AV(S Video) input signal. ("Signal [AV]" menu is displayed.)







Press (ACTION) button

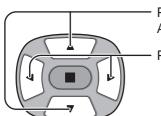


Note:

When On, this setting only affects NTSC input signals.

Colour system / Panasonic Auto

Select Signal from the "Setup" menu during AV(S Video) input signal. ("Signal [AV]" menu is displayed.)

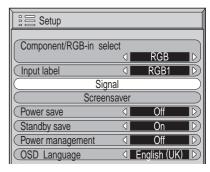


Press to select the "Colour System" or "Panasonic Auto".

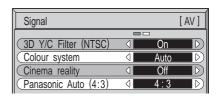
Press to select each functions.

If the picture image becomes unstable:

With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.



Press (ACTION) button



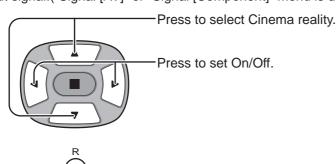
Mode	Function
Colour system	Set the colour system to match the input signal. If set to "Auto", the colour system is determined automatically. Auto PAL SECAM M.NTSC NTSC
Panasonic Auto (4:3)	Set to "4: 3" to view 4:3 images in an unchanged format when Panasonic Auto is selected. If you would like to view 4:3 images in Just format, set to "Just".

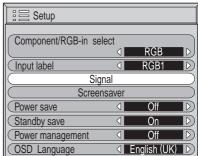
Cinema reality

When on, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.

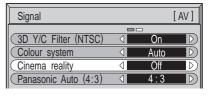
If the picture is not stable, turn the setting to off.

Select "Signal" from the "Setup" menu during AV(S Video) or Component input signal. ("Signal [AV]" or "Signal [Component]" menu is displayed.)





Press (ACTION) button





Note

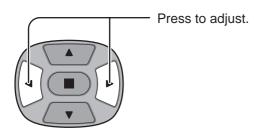
When On, this setting only affects the following signal input:

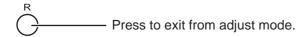
- NTSC / PAL signal input during "AV(S Video)" input signal.
- 525i(480i) 625i(575i) signal input during "Component" input signal.

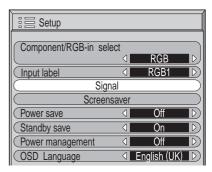
Press to exit from adjust mode.

Sync

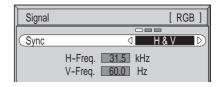
Select Signal from the "Setup" menu during RGB input signal.







Press (ACTION) button



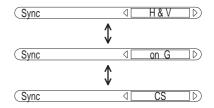
Setting RGB sync signal:

Confirm that the input is set to RGB input (this setting is valid only for RGB input signal).

H & V: The H and V sync signals are input from the HD/VD connector. on G: Uses a synchronized signal on the Video G signal, which is input

from the G connector.

CS: Uses a synchronized signal of Composite Sync input.



H-Freq. (kHz)/V-Freq. (Hz)

Displays the H (Horizontal)/V (Vertical) frequencies.

This display is valid only for RGB/PC input signal.

Display range:

Horizontal 15 - 110 kHz Vertical 48 - 120 Hz H-Freq. 31.5 kHz V-Freq. 60.0 Hz

Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

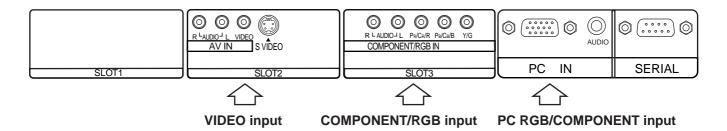
Symptoms		Checks	
Picture	Sound	Cliecks	
Interference	Noisy Sound	Electrical Appliances Cars/Motorcycles Fluorescent light	
Normal Picture	No Sound	Volume (Check whether the mute function has been activated on the remote control.)	
? No Picture	No Sound	Not plugged into AC outlet Not switched on Picture and Brightness/Volume setting (Check by pressing the power switch or stand- by button on the remote control.)	
? No Picture	Normal Sound	If a signal with a non-applicable colour system format, or frequency is input, only the input terminal indication is displayed.	
No Colour	Normal Sound	Colour controls set at minimum level (see page 18) Colour system (see page 24)	

This Plasma Display uses special image processing. Hence a slight time lag may occur between image and audio, depending on the type of input signal. However, this is not a malfunction.

Plasma Display panel

Symptoms	Check
Some parts of the screen do not light up.	The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.
Panasonic	Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.
After-images appear	Note: The permanent after-image on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.
Whirring sounds can be heard from the display unit.	The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.

VIDEO/COMPONENT/RGB/PC Input Signals



VIDEO input [Applicable when Multi Screen and Digital Zoom]

	Cinnal name	Horizontal	Vertical
	Signal name	frequency(kHz)	frequency(Hz)
1	NTSC	15.73	59.94
2	PAL	15.63	50.00
3	PAL60	15.73	59.94
4	SECAM	15.63	50.00
5	Modified NTSC	15.73	59.94

Applicable input signals for PC Input (D-sub 15P) (* Mark)

	Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	RGB
1	525 (480) / 60i	15.73	59.94	*	*
2	525 (480) / 60p	31.47	59.94	*	*
3	625 (575) / 50i	15.63	50.00	*	*
4	625 (575) / 50p	31.25	50.00	*	*
5	750 (720) / 60p	45.00	60.00	*	*
6	750 (720) / 50p	37.50	50.00	*	*
7	1,125 (1,080) / 60i	33.75	59.94	*	*
8	1,125 (1,080) / 50i	28.13	50.00	*	*
9	1,125 (1,080) / 24p	27.00	24.00	*	*
10	1,125 (1,080) / 24sF	27.00	48.00	*	*
11	1,250 (1,080) / 50i	31.25	50.00	*	*
12	640 × 400 @70 Hz	31.47	70.00		*
13	640 × 480 @60 Hz	31.47	59.94		*
14	Macintosh13" (640 × 480)	35.00	66.67		*
15	640 × 480 @75 Hz	37.50	75.00		*
16	852 × 480 @60 Hz	31.50	60.00		*
17	800 × 600 @60 Hz	37.88	60.32		*
18	800 × 600 @75 Hz	46.88	75.00		*
19	800 × 600 @85 Hz	53.67	85.06		*
20	Macintosh16" (832 × 624)	49.73	74.55		*
21	1,024 × 768 @60 Hz	48.36	60.00		*
22	1,024 × 768 @70 Hz	56.48	70.07		*
23	1,024 × 768 @75 Hz	60.02	75.03		*
24	1,024 × 768 @85 Hz	68.68	85.00		*
25	Macintosh21" (1,152 × 870)	68.68	75.06		*
26	1,280 × 1,024 @60 Hz	63.98	60.02		*
27	1,280 × 1,024 @75 Hz	79.98	75.03		*
28	1,280 × 1,024 @85 Hz	91.15	85.02		*
29	1,600 × 1,200 @60 Hz	75.00	60.00		*
30	1,066 × 600 @60 Hz	37.88	60.32		*
31	1,366 × 768 @60 Hz	48.36	60.00		*

Note:

Signals without above specification may not be displayed properly.

Specifications

	TH-42PHW6	TH-50PHW6
Power Source	i e	AC, 50/60 Hz
Power Consumption		-,
Normal use	335 W	445 W
Stand-by condition		Save on 1.1 W
Power off condition		1 W
Plasma Display panel	Drive method: AC type 42-inch, 16:9 aspect ratio	Drive method: AC type 50-inch,16:9 aspect ratio
Contrast Ratio		00:1
Screen size	920(W) × 518 mm (H) × 1,056 mm (diagonal)	1,106 (W) × 622 mm (H) × 1,269 mm (diagonal)
(No.of pixels)	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]
Operating condition		
Temperatuer		40 °C
Humidity	20 %	- 80 %
Applicable signals		
Colour System	NTSC, PAL, PAL60, SECAM, Modified NTSC	
Scanning format		25 (1080) / 60i · 50i · 24p · 24sF ···· SMPTE274M, 1250 (1080) / 50i
PC signals		display
		GA, XGA
		··· (compressed)
		requency 15 - 110 kHz
	Vertical scanning fre	equency 48 - 120 Hz
Connection terminals	\(\(\text{\text{\$1.50}}\)	
AV	VIDEO IN (RCA)	1.0 Vp-p (75-ohm or high impedance)
	S VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
COMPONENT/RGB	AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	Y/G (RCA)	1.0 Vp-p/composite (75-ohm)
	D- 10- 1D (DOA) D- 10- 1D (DOA)	0.7 Vp-p/non-composite (75-ohm)
	PB/CB/B (RCA), PR/CR/R (RCA)	0.7 Vp-p (75-ohm)
PC	AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
	(HIGH-DENSITY D-SUB 15PIN) R,G,B/0.7 Vp-p (7	
	Y : 1.0 Vp-p (75-ohm Component PB/CB : ± 0.35 Vp-p (75-ohm	
		Vp-p (high impedance)
	AUDIO IN (M3 JACK) 0.5 Vrms (high im	
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE
SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)	
Accessories Supplied	1000 10 00 40	**!(!O /O !!!D)
Remote Control Transmitter	FLIRE	46530
Batteries	EUR646530 2 × R6 Size	
Fixing bands	2 × RO SIZE (TMME203 or TMME 187) × 2	
Ferrite core	J0KF00000018 × 1, J0KG00000054 × 2	
Dimensions	1,020 mm × 610 mm × 89 mm	1,210 mm × 724 mm × 95 mm
$(W \times H \times D)$.,	1,210 mm 95 mm
,	1,020 mm 89 mm	
		724 mm
		G-0- 111(0
Mass (weight)		
main unit only	approx. 30.0 kg net	approx. 44.0 kg net
with speakers	approx. 34.2 kg	approx. 48.6 kg

Note:

Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

Customer's Record

The model number and serial number of this product can be found on its back cover. 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.

Web Site: http://www.panasonic.co.jp/global/