

## Wide Plasma Display **Operating Instructions TH-37PWD4**

Model No.



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



## 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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- VGA is a trademark of International Business Machines Corporation.
- 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.

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## **Important Safety Notice**

WARNING: 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.)

**WARNING:** 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2) 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.

#### WARNING

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-SP37P4W-K
- Pedestal ...... TY-ST42PT3-K
- Wall stand ...... TY-ST42PW1
- Wall-hanging bracket (vertical) ...... TY-WK37PV3
- Ceiling unit ...... TY-CE42PS1
   Terminal cover ...... TY-UPS200

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 a 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 generates 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.

### **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.

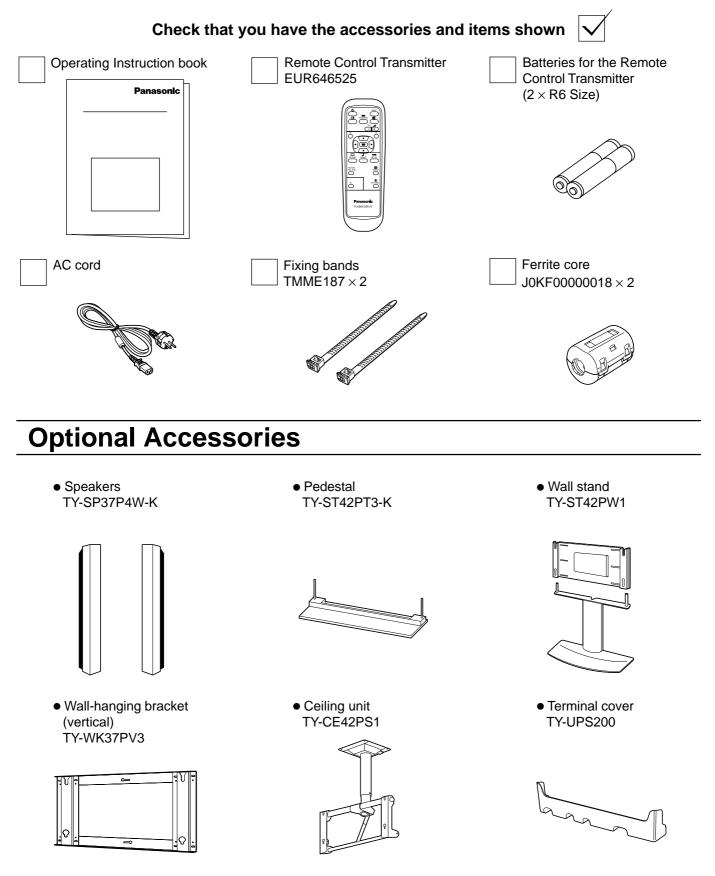
- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water to which a small amount of neutral detergent has been added, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of 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.

## Accessories

## **Accessories Supply**



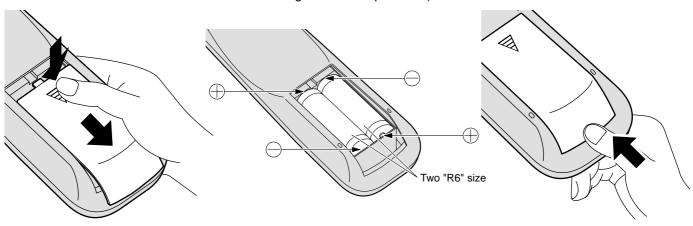
### For assembling

Full instructions are supplied with each optional accessory for use with this Plasma Display.

## **Remote Control Batteries**

### Requires two R6 batteries.

- 1. Turn the transmitter face down. Press and slide off the battery cover.
- 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.

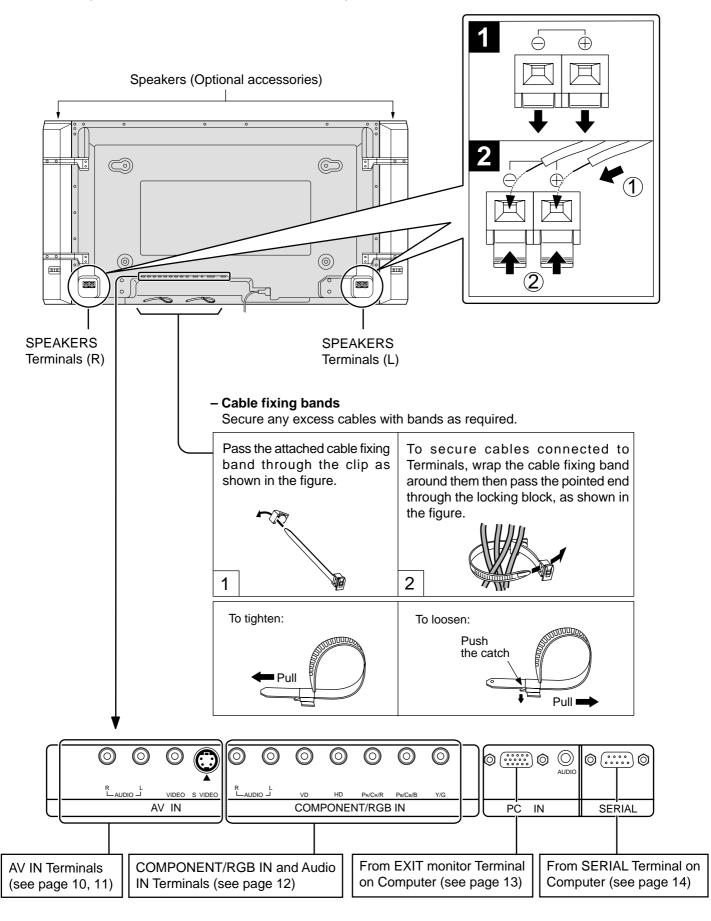
### ⚠ Precaution on battery use

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

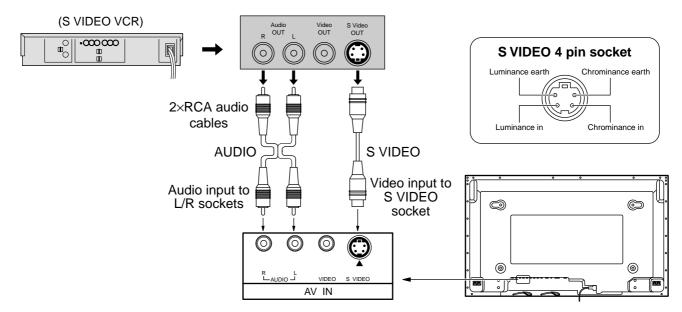
When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.



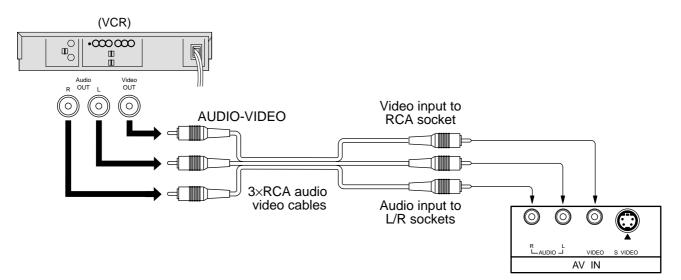
## **AV Input Terminals connection**

Connect the signal source equipment.

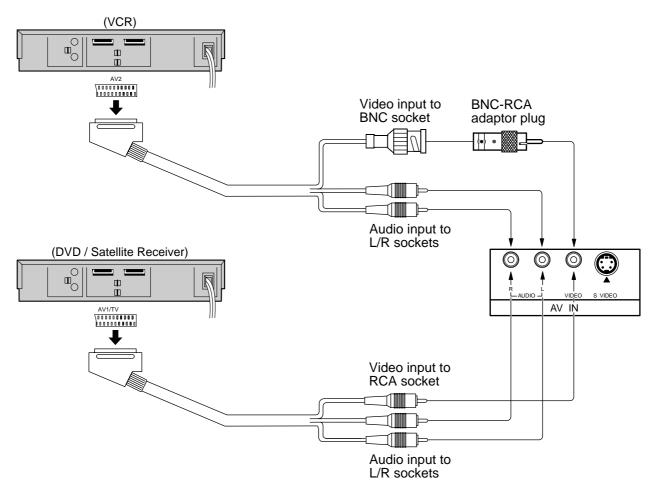
(Example) When connecting an S VIDEO VCR



### **VIDEO** signal connection



(Example) When connecting 21 pin scart cables.



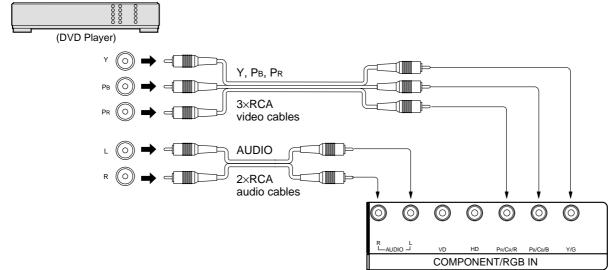
### Notes:

(1) Additional equipment, cables and an adapter plug shown are not supplied with this set.

(2) 21 pin connectors and 21 pin scart plugs are connectors used in Europe.

### **Component/RGB Input connection**

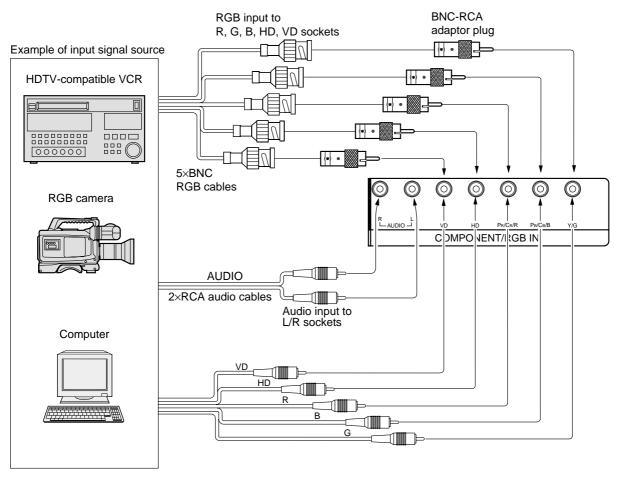
### Component signals (Y, PB, PR) connection



### Notes:

- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "Component". (see page 34, 36)
- (2) Additional equipment, cables and adapter plugs shown are not supplied with this set.

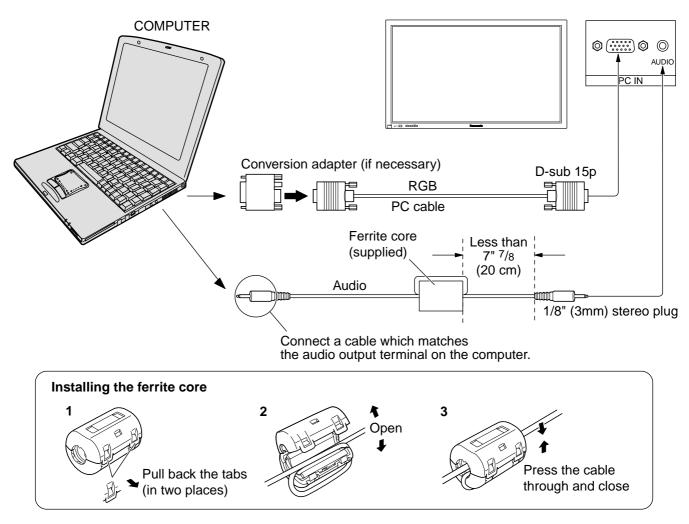
### RGB signal (R, G, B, HD, VD) connection



### Notes:

- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "RGB". (see page 34, 36)
- (2) Additional equipment, cables and adapter plugs shown are not supplied with this set.

### How to connect the PC Input Terminals



### Notes:

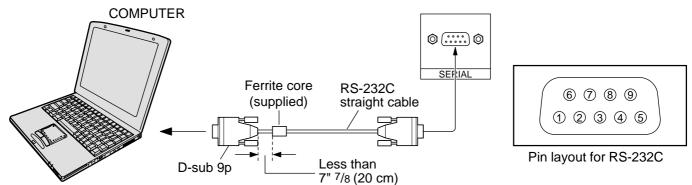
- (1) Computer signals which can be input are those with a horizontal scanning frequency of 15.5 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, signals cannot be displayed if signals exceeding 1200 lines will not be displayed properly.)
- (2) The display resolution is a maximum  $640 \times 480$  dots when the aspect mode is set to "4:3", and  $852 \times 480$  dots 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.

### Signal Names for D-sub 15P Connector

	Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
	1	R	6	GND (Ground)	(1)	GND (Ground)
	2	G	7	GND (Ground)	(12)	SDA
	3	В	8	GND (Ground)	13	HD/SYNC
Din Lovout for DC Input	4	GND (Ground)	9	NC (not connected)	14	VD
Pin Layout for PC Input Terminal	5	GND (Ground)	10	GND (Ground)	15	SCL

## How to connect the SERIAL Terminals

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



### Notes:

(1) Use the RS-232C cable to connect the computer to the Plasma Display.

(2) The computers 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 a programming language to software. Refer to the documentation for the computer application for details.

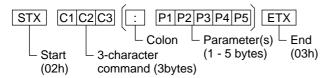
### **Communication parameters**

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	R X D					
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:

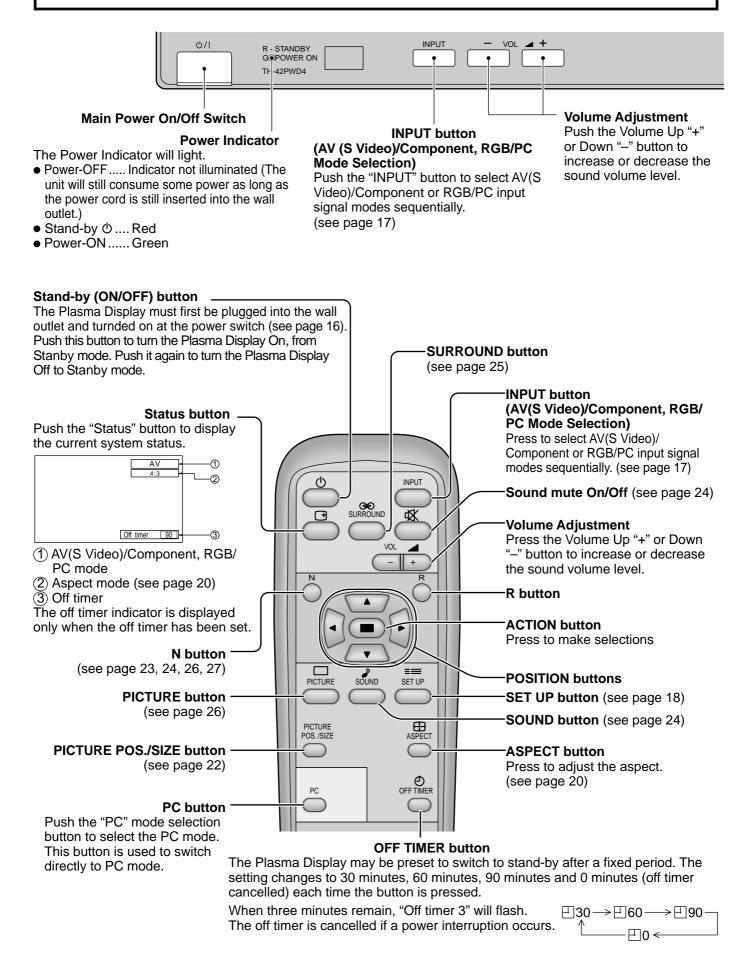
- If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- (2) If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.

### Command

Command	Parameter	Control details
PON	None	Power ON
POF	None	Power OFF
AVL	**	Volume 00 - 63
AMT	0	Audio mute OFF
AWIT	1	Audio mute ON
IIS	None	Input select (toggle)
	VID	AV Mode
	YP1	Component / RGB mode (processed as a
		Y/PB/PR or RGB signals as set by this unit)
	RG1	PC Mode
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.

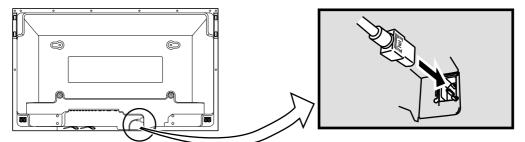
## **Basic Controls**



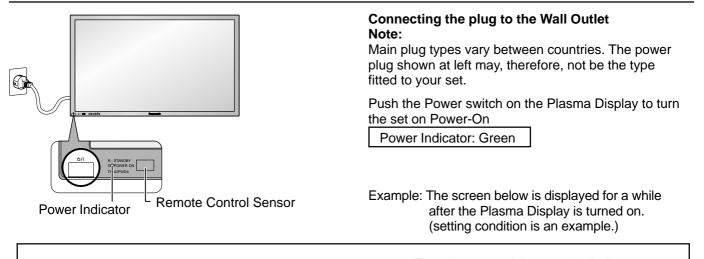
# **Power On/Off and input signal selection**

## AC cord connection

Connecting the AC cord plug to the Plasma Display.



## Power On/Off



From the second time on, the below screen When the Power is turned on for the OSD Language is displayed for a while (setting condition is first time, the Language selection an example). English (UK) screen is displayed. Deutsch Français AV From the second time on, language Italiano 4:3 selection can be done from the setup Españo menu. (see page 17) ENGLISH (US) 中文 Select the desired language using the ್ ಹ್ಯಂ ▲ and ▼ keys and press the Action Sol button. Select Press the 🖞 button on the remote control to turn the Plasma Display off Power Indicator: Red (standby) INPUT Press the 🕐 button on the remote control to turn the

必 VOL 

Plasma Display on

Power Indicator: Green

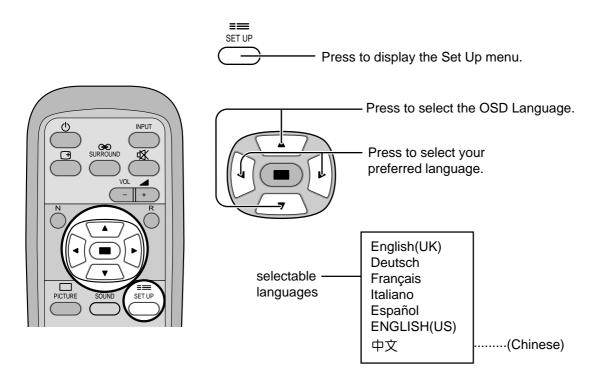
Turn the power to the Plasma Display set off by pressing the () switch on the Plasma Display, when the Plasma Display is on or in standby mode.

## Select the input signal

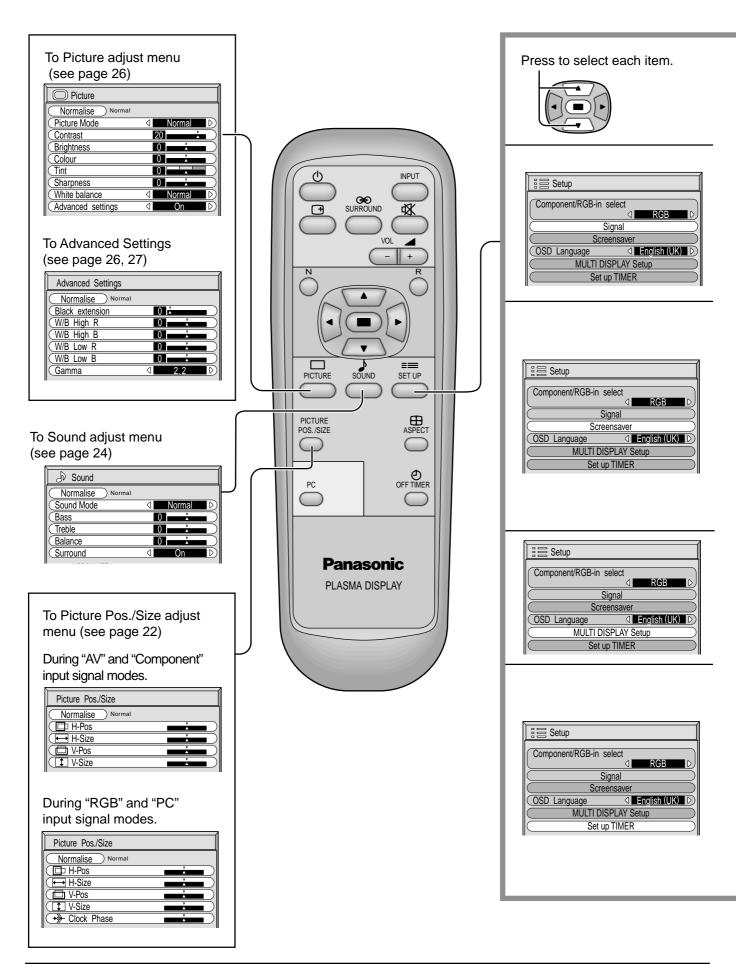
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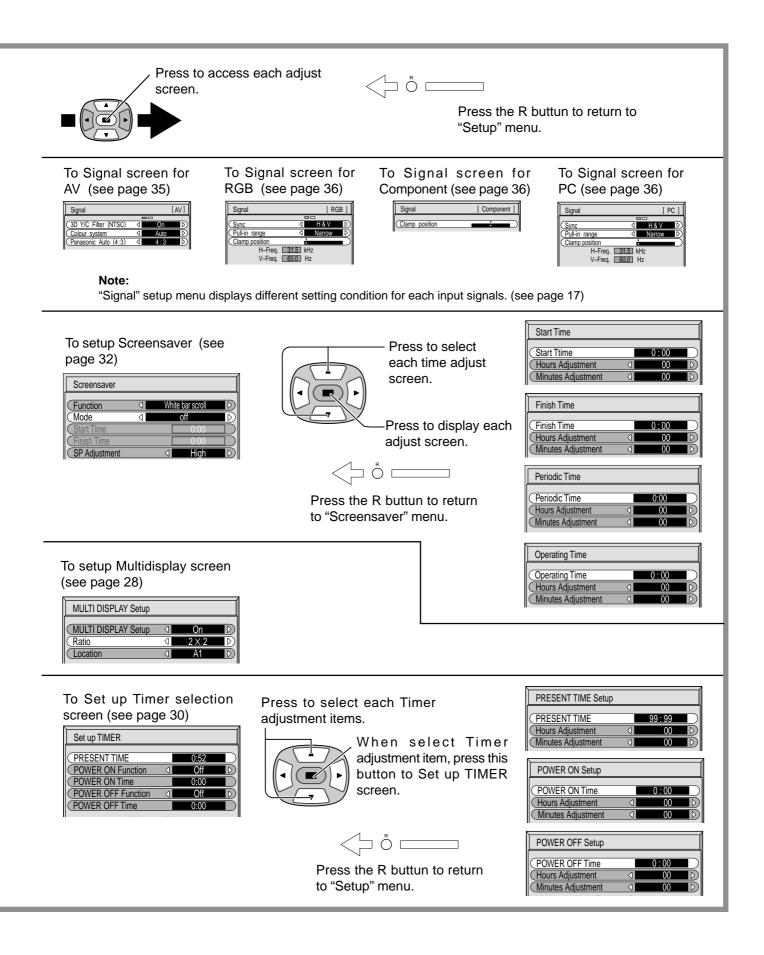
	INPUT	Press the INPUT button to select the input AV signal desired from equipment such as a VCR which has been connected to the Plasma Display.
		Input signals will change as follows: For Component Input (see page 34)
		$\rightarrow$ AV $\rightarrow$ Component $\rightarrow$ PC $\rightarrow$
		For RGB Input (see page 34) $\longrightarrow$ AV $\longrightarrow$ RGB $\longrightarrow$ PC $\longrightarrow$
URROUND VOL		

## Selecting the On-Screen Menu Language



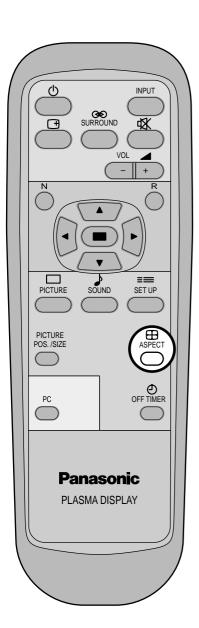
# **On-Screen Menu Display from Remote Control**





# **ASPECT Controls**

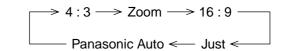
The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.





### ASPECT button

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



### Notes:

- (1) During RGB and PC input signal modes, the mode switches between "4:3", "Zoom" and "16:9" only.
- (2) For a 525p (480p) signal input during "Component" input signal mode, the mode switches between "Zoom" and "16:9" only.
- (3) For a 1125i (1080i), 750p (720p) signal input during "Component" input signal mode, the mode is set to "16:9" mode, and switching is not possible.

For a 525i (480i), 625i (576i) signal input during "Component" input signal mode, "Panasonic Auto" can not be selected.

(4) The aspect mode is memorized separately for each input terminal (AV, Component, RGB and PC).

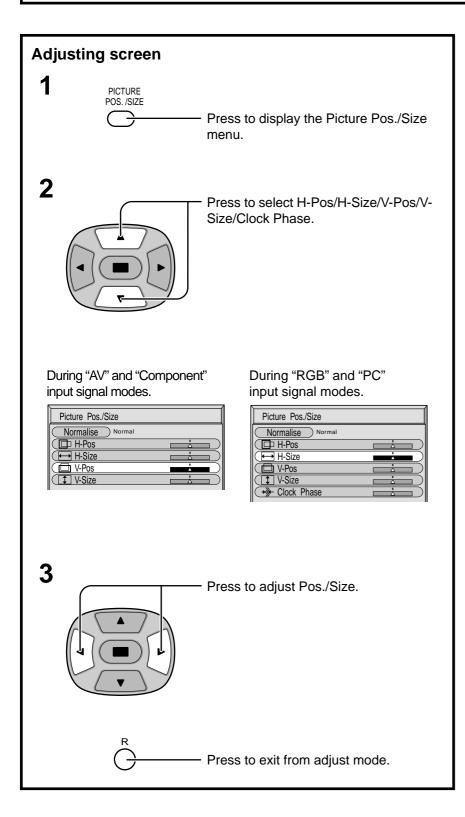
### **ASPECT Controls**

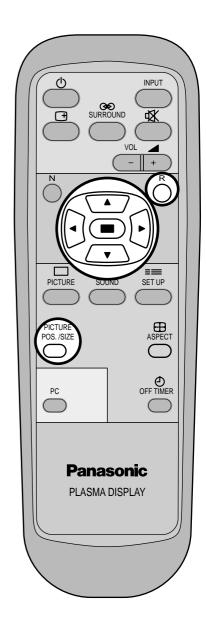
Mode	Picture	Explanation
4 : 3		4:3 will display a 4:3 picture at its standard 4:3 size.
Zoom	$\begin{array}{c c} \bullet & \bullet \\ \bullet & \bullet$	Zoom mode magnifies the central section of the picture.
16 : 9		16:9 will display the picture at its maximum size but with sight elongation.
Just	$ \begin{array}{c c} & 4 & & \bullet \\ \hline & & & & \\ \hline & & & & \\ \hline & & & & \\ \hline & & & &$	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 4 4 4 4 4 4 4 3 3 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 3 4 4 4 4 4 5 1 1 1 1 1 1 1 1	The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. <b>Note:</b> 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.

### Notes:

- (1) Do not allow 4:3 mode to be displayed for an extended period, as this can cause a permanent after-image to remain on the Plasma Display Panel.
- (2) The S Video terminal on this set can detect specially encoded signals that are compatible with a wide screen monitor. When a full image from the S Video terminal of specially encoded video is detected by the set, the screen size is automatically set to 16:9 mode.

# **Adjusting Picture Pos./Size**





### Notes:

- (1) Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525i (480i), 625i (576i), 525p (480p), 1125i (1080i) and 625p (576p), 750p (720p) 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 Position Right ">" button is pressed.		
H-Pos				
	When the Position Left "◄" button is pressed.	When the Position Right "▶" button is pressed.		
H-Size	$\begin{array}{c c} \bullet & \bullet \\ \bullet & \bullet$			
	When the Position Left "  " button is pressed.	When the Position Right ">" button is pressed.		
V-Pos				
	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 using the Position Left "◄" or Right "▶" button to carry out adjustment.			

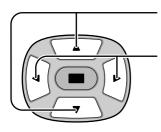
## - Helpful Hint ( Normalise Normalisation)

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.

# Sound Adjustment

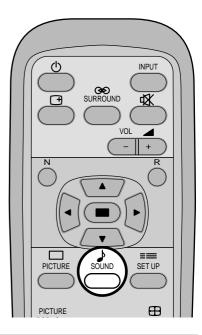
SOUND Press to display the Sound menu.

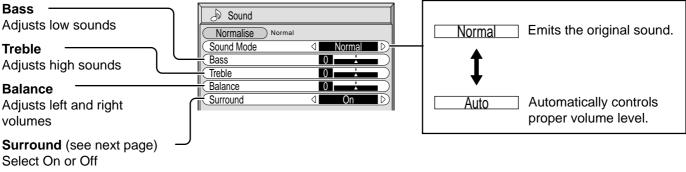
**2** Select to adjust each item.



Press to select the desired adjustment menu.

Select the desired level by listening to the sound.





To end adjustments

Press the R button

### Note:

Press the SURROUND button to directly turn the surround effect On and Off. (see next page)

## - 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 (Action button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

### **Mute**

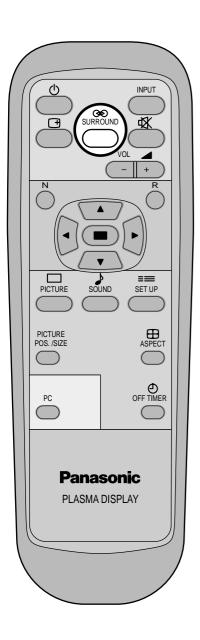
Useful when answering the phone or receiving unexpected visitors.



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.

## **Surround Controls**

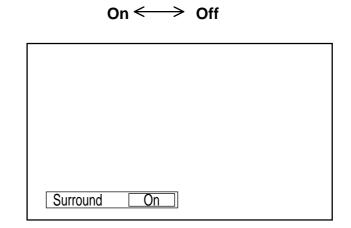




### **SURROUND Button**

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround setting switches on and off each time the SURROUND button is pressed.



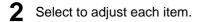
### Note:

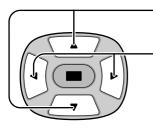
The surround settings are memorized separately for each Sound mode (Auto, Normal).

# **Picture Adjustments**



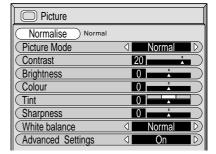
Press the PICTURE button on the Remote Control to display the Picture menu.

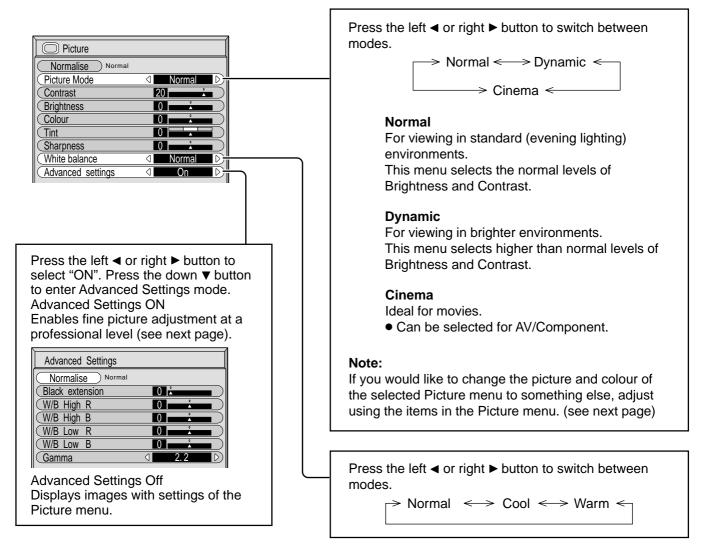




Press to select the menu to adjust.

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





## $-\frac{1}{2}$ Helpful Hint ( $^{N}_{O}$ / Normalise Normalisation)

While the "Picture" menu is displayed, 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.

Item	Effect		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 slightly to a lighter colour.
Tint (NTSC only)	Reddish	Greenish	Adjust for nice skin colour.
Sharpness	Less	More	Displays a sharp image.

#### Notes:

- "Colour", "Tint" and "Sharpness" settings cannot be adjusted for "RGB" and "PC" input signal modes.
- (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 (AV, Component, RGB).
- (4) The "Tint" setting can be adjusted for NTSC signal only.

### Note:

There is little change when Picture is increased with a bright picture or reduced with a dark picture.

## **Advanced Settings**

Item	Effect		Details
Black extension	Less	More	Adjusts the dark shades of the image in gradiation.
W/B High R	Less	More	Adjusts the white balance for light red areas.
W/B High B	Less	More	Adjusts the white balance for light blue areas.
W/B Low R	Less	More	Adjusts the white balance for dark red areas.
W/B Low B	Less	More	Adjusts the white balance for dark blue areas.
Gamma	Down	Up	$2.0 \longleftrightarrow 2.2 \longleftrightarrow 2.5$

### Notes:

(1) Carry out "W/B" adjustment as follows.

- Adjust the white balance of the bright sections using the "W/B High R" and "W/B High B" settings.
- **B** Adjust the white balance of the dark sections using the "W/B Low R" and "W/B Low B" settings.
  - C Repeat steps A and B to adjust.
- Steps (A) and (B) affect each other's settings, so repeat each step in turn to make the adjustment.
- (2) The adjustment values are memorized separately for each input mode (AV, Component, RGB and PC).
- (3) The adjustment range values should be used as an adjustment reference.

### $\dot{\Psi}$ Helpful Hint ( $\overset{N}{O}$ / Normalise Normalisation)

On the remote control unit, while the "Advanced settings" menu is displayed, if either the N button is pressed at any time or the 
(Access button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

# Setup for MULTI DISPLAY

- (1) By lining up Plasma Displays in groups of 4 or 9 as illustrated below, an enlarged picture may be displayed across all screens.
- (2) For this mode of operation, each plasma display has to be set up with a Display number to determine its location.

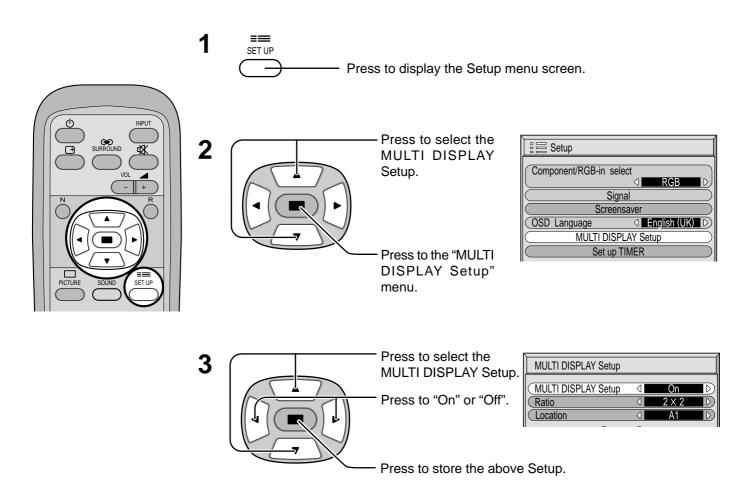
group of 4 (2×2)



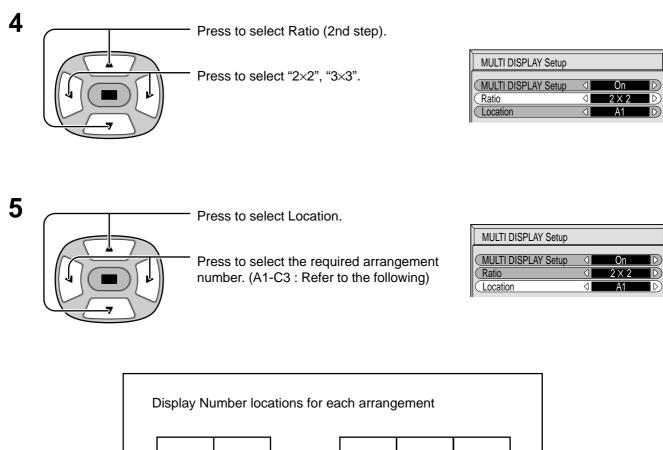
group of 9 (3×3)



## How to Setup MULTI DISPLAY



### How to set the display location number for each Plasma Display



Display Number locations for each arrangement							
	A1	A2		A1	A2	A3	
	B1	B2		B1	B2	B3	
				C1	C2	C3	
							_

6 Press twice to exit from Setup.

#### Notes:

• For PC or RGB input signals, normal multi-display magnification is only available at the VGA resolution.

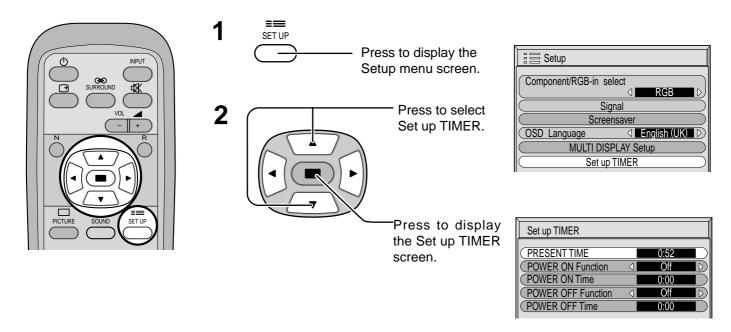
• The multi-display capability is not functional for component signals.

# Set up TIMER

The timer can switch the Plasma Display On or Off.

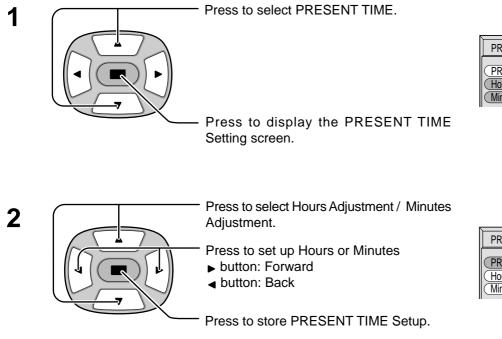
Before attempting Timer Set, confirm the PRESENT TIME and adjust if necessary. Then set POWER ON Time / POWER OFF Time.

Display the Set up TIMER screen



## **PRESENT TIME Set**

To set up PRESENT TIME, follow the procedure described below.



PRESENT TIME Setup			
PRESENT TIME		99 : 99	
Hours Adjustment	4	00	$\triangleright$
Minutes Adjustment	4	00	

PRESENT TIME Setup			
PRESENT TIME		0 : 52	
Hours Adjustment	4	00	$\triangleright$
Minutes Adjustment	4	52	$\triangleright$

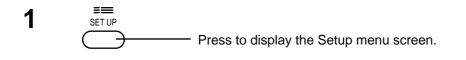
## **TIMER Set**

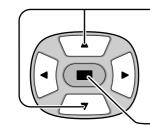
1		Press to select POWER ON Time/POWER OFF Time.	Set up TIMER         PRESENT TIME         0:52         POWER ON Function         0ff         POWER ON Time         0:00         POWER OFF Function         Off         POWER OFF Function         0:00
		Press to display the POWER ON Setup / POWER OFF Setup screen.	
2		Press to select Hours Adjustment/ Minutes Adjustment. Press to adjust each time.	POWER ON Setup       POWER ON Time       0:52       Hours Adjustment       00       Minutes Adjustment       52
		Press to complete POWER ON Time / POWER OFF Time and return to the Set up TIMER screen.	POWER OFF Time     0:00       Hours Adjustment     00       Minutes Adjustment     00
3		Press to select POWER ON Function/POWER OFF Function. Press to select On.	Set up TIMER         PRESENT TIME       0:52         POWER ON Function       Image: Online in the image: Onlim the ima
		Press to store setting.	
4	C	Press twice to exit from Setup.	

Note: Timer function will not work unless "PRESENT TIME" is set.

## 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.





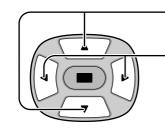
2

3

- Press to select the Screensaver.

Press to select the Screensaver screen.

### **Reversal / Scroll selection**



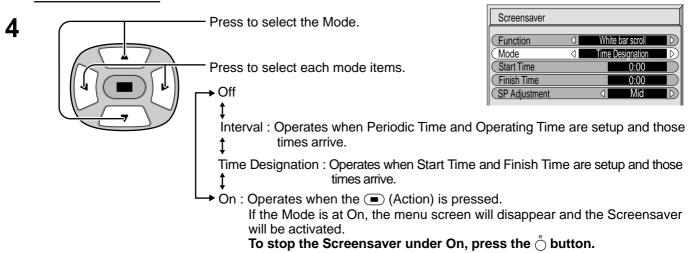
Press to select the Function.

Press to select the desired function.

Image Reversal ← → White bar scroll

Image Reversall : Negative image will be displayed on the screen. White bar scroll : The white bar will scroll from left to right.

### Mode selection



After selecting Time Designation or Interval, the relevant Time Setup will become available for selection and the Operating Time may be set.

4	White bar scroll
٥	Time Designation
	0:00
	0:00
	0

Screensaver			
Function	4	White bar scroll	D
Mode	4	Interval	D
Periodic Time		0:00	
Operating Time		0:00	
SP Adjustment			$\triangleright$

Screensaver			
Function	4	White bar scroll	
Mode	$\triangleleft$	Interval	D
Periodic Time		0:00	
Periodic Time Operating Time		0:00	

Signal Screensaver

MULTI DISPLAY Setup Set up TIMER

RGB

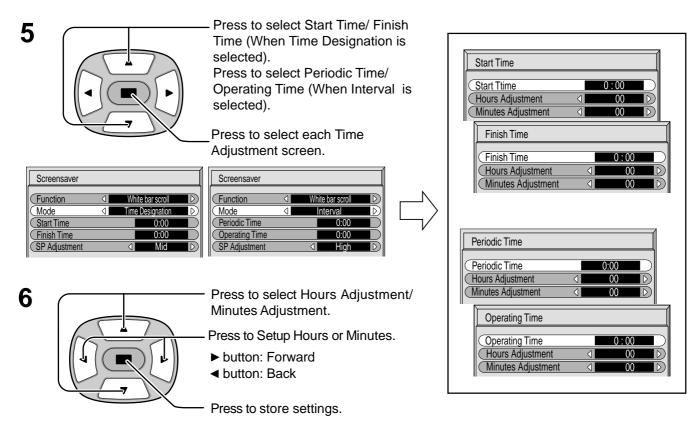
English (UK)

E Setup

OSD Language

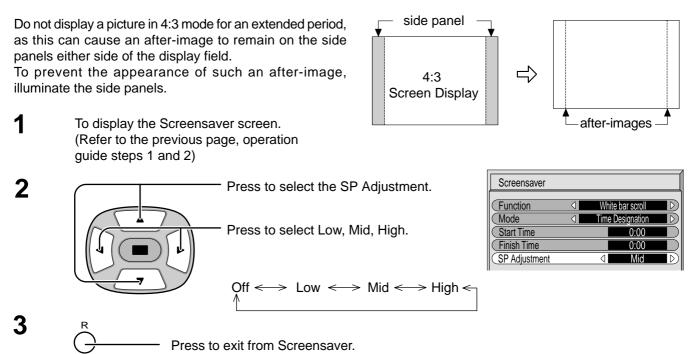
Component/RGB-in select

### **Setup of Screensaver Time**



Note: Timer function will not work unless "PRESENT TIME" is set.

## Side Panel Adjustment



Notes:

- Setting the side panel to High mode for an extended period may result in occurence 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.

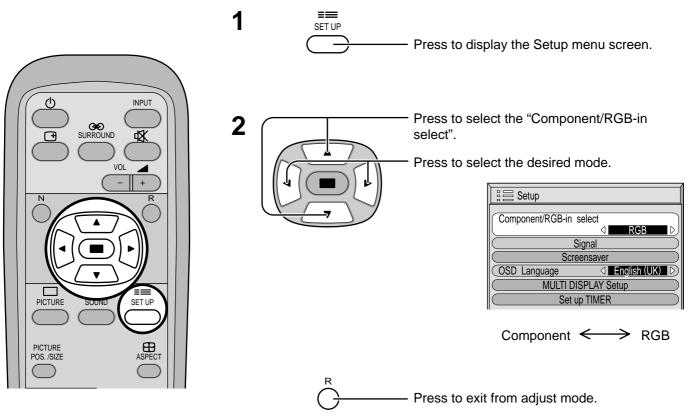
# **Setup for Input Signals**

## **Component/RGB-in Select**

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

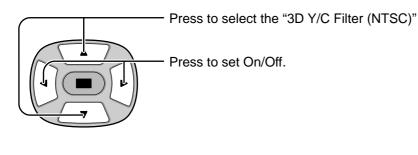
Y, PB, PR signals  $\Longrightarrow$  "Component"

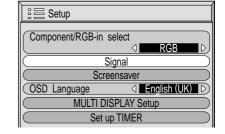
R, G, B, HD, VD signals  $\implies$  "RGB"



## 3D Y/C Filter – For NTSC video images

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





几 Press (I) (Action) button

Signal			[ AV	]
(3D Y/C Filter (NTSC)	$\triangleleft$	On		$\triangleright$
Colour system	$\triangleleft$	Auto		$\triangleright$
Panasonic Auto (4:3)	$\triangleleft$	4:3		$\triangleright$

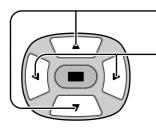
### Press to exit from adjust mode.

### 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 mode.("Signal [AV]" menu is displayed.)

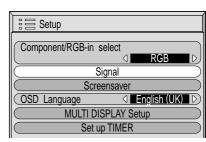
signal.



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

Press to select each functions.

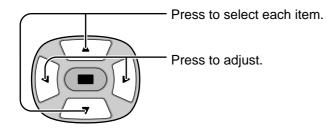
If the picture image becomes unstable: With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input



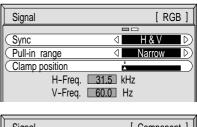
		[AV]
$\triangleleft$	On	ert
$\triangleleft$	Auto	$\triangleright$
$\triangleleft$	4:3	$\triangleright$
		<ul> <li>○ On</li> <li>○ Auto</li> <li>○ 4:3</li> </ul>

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

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



The following operation methods are the same for both the Signal [RGB] and Signal [PC].



Signal	[ Component ]
Clamp position	

Signal	[ PC ]
Sync	
Pull-in range	⊲ Narrow ▷)
Clamp position	Å )
H-Freq.	31.5 kHz
V-Freq.	60.0 Hz



### Setting RGB sync signal:

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

- 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.
- on VIDEO: Compatible with the scart plug (Europe) The composite video signal input from the VIDEO input terminal is used by dividing the sync signals.

### Setting PC sync signal:

Confirm that the input is set to PC INPUT (this setting is valid only for PC INPUT).

- 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.

### Pull-in range

### Sets the width for different frequencies.

(This setting is the same for both Signal [RGB] and Signal [PC].)

### **Clamp position**

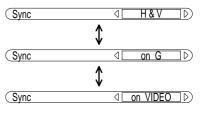
### Adjusts the clamp position.

The following operation methods are the same for "Signal" menu during Component, RGB and PC input signal mode. Normally, these adjustments are set to appropriate levels and therefore, do not need to be altered.

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

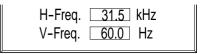
### Displays the H (Horizontal)/V (Vertical) frequencies.

This display is valid only for RGB input and PC input. Display range: Horizontal 15.5 - 110 kHz Vertical 48 - 120 Hz









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

Symptoms		Checks
Picture	Sound	Checks
	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.)
<b>?</b> No Picture	No Sound	Not plugged into AC outlet Not switched on Picture and Bightness/Volume setting (Check by pushing the power switch or stand-by button on the remote control.)
<b>?</b> 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. Colour system (see page 26, 27)

### 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.	
Panasanis	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	<b>Note:</b> 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.	

# Specifications

	TH-37PWD4	
Power Source	220 - 240	V AC, 50/60 Hz
Power Consumption		
Normal use		225 W
Stand-by condition	1.8 W	
Power off condition	1.6 W	
Plasma Display panel	Drive method AC type	
	37-inch, 2	16:9 aspect ratio
Contrast Ratio		3000:1
Brightness Capability	(Panel o	nly) 650 cd / m <sup>2</sup>
	(As a set) 330 cd / m <sup>2</sup>	
Screen size	818 mm (W) × 461 mm (H) × 939 mm (diagonal)	
	No. of pixels	
	408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]	
Operating condition		
Temperature	0 °C - 40 °C	
Humidity	20 % - 80 %	
Applicable signals		
Colour System	NTSC, PAL, PAL60, SECAM, Modifie	d NTSC
Scanning format         525i (480i), 625i (576i), 525p (480p), 625p (576p), 750p (720p), 112		625p (576p), 750p (720p), 1125/60i, 50i,
	24p, 24SF (1080/60i, 50i, 24p, 24SF) SMPTE 274M	
PC signals	VGA display	
	VGA	
	SVGA, XGA, SXGA, UXGA (compres	sed)
	Horizontal scanning frequency 15.5 - 110 kHz	
	Vertical scanning frequency 48 - 120 Hz	
Connection terminals		
AV	Video IN (RCA)	1.0 Vp-p (75-ohm)
	S Video IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
	AUDIO IN (RCA PIN JACK $\times$ 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	Y/G (RCA)	1.0 Vp-p/composite (75-ohm)
		0.7 Vp-p/non-composite (75-ohm)
	Рв/В (RCA)	0.7 Vp-p (75-ohm)
	Pr/R (RCA)	0.7 Vp-p (75-ohm)
	HD (RCA)	1.0 - 5.0 Vp-p (high impedance)
	VD (RCA)	1.0 - 5.0 Vp-p (high impedance)
	AUDIO IN (RCA PIN JACK $\times$ 2)	0.5 Vrms (high impedance)
PC	(HIGH-DENSITY D-SUB 15PIN)	R,G,B/0.7 Vp-p (75-ohm)
		HD, VD/1.0 - 5.0 Vp-p (high impedance)
	AUDIO IN (M3.5 JACK)	0.5 Vrms (high impedance)
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9	·
SPEAKERS (6 $\Omega$ )		
	For TY-SP37P4W-K only	

		TH-37PWD4	
Ac	cessories Supplied		
	Remote Control Transmitter	EUR646525	
	Batteries	2 × R6 Size	
	Fixing bands	TMME187 × 2	
	Ferrite core	J0KF0000018 × 2	
Op	tional Supplied		
-	Speakers	TY-SP37P4W-K	
	Pedestal	TY-ST42PT3-K TY-ST42PW1	
	Wall stand		
	Wall-hanging bracket (vertical)	TY-WK37PV3	
	Ceiling unit	TY-CE42PS1	
	Terminal Cover	TY-UPS200	
Dimensions (W × H × D)		920mm × 550 mm × 89 mm	
		approx. 25.0 kg net (main unit only) approx. 29.2 kg (with speakers)	

Notes:

(1) Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.

(2) This equipment complies with the EMC standards listed below. EN55022, EN61000-3-2, EN61000-3-3, EN61000-6-2.

#### **Customer' 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/