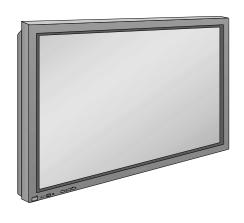
# **Panasonic**®





# Progressive Wide Plasma Display Operating Instructions

TH-37PW5 TH-42PW5

Model No.



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.

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For United Kingdom and Republic of Ireland

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- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon–Friday 9:00am–5:30pm. (Excluding public holidays.)
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- Most major credit and debit cards accepted.
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**Customer Care Centre** 

For UK customers: 08705 357357

For Republic of Ireland customers: 01 289 8333

**Technical Support** 

For UK customers: 0870 1 505610

This Technical Support Hot Line number is for Panasonic PC software related products only.

For Republic of Ireland, please use the Customer Care Centre number listed above for all enquiries.

For all other product related enquiries, please use the Customer Care Centre numbers listed above.

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#### **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 or any part of a still picture i.e. edges to be displayed for an extended period, as this can cause a permanent after-image to remain on the Wide Plasma Display.

Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. (Refer to pages 28, 29 and 35 for further information.)

### **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.
- 3) 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.

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

#### IMPORTANT: THE MOULDED PLUG

#### FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark \$ or the BSI mark  $\overleftrightarrow{\heartsuit}$  on the body of the fuse.

If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained A replacement fuse cover can be purchased from your local Panasonic Dealer.

If the fitted moulded plug is unsuitable for the socket outlet in your home, then the fuse shall be removed and the plug cut off and disposed of safety. There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted, please observe the wiring code as shown below. If in any doubt, please consult a qualified electrician.

WARNING: — THIS APPARATUS MUST BE EARTHED.

IMPORTANT: — The wires in this mains lead are coloured in accordance with the following code: —

Green-and-Yellow: Earth
Blue: Neutral
Brown: Live

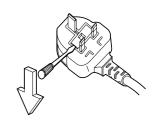
As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol  $\bigcirc$  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

<u>How to replace the fuse.</u> Open the fuse compartment with a screwdriver and replace the fuse.



### **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-SP42P5W-S (TH-42PW5)
Pedestal	TY-ST05-S
• Wall stand	TY-ST42PW1
Mobile stand	TY-ST42PF3 (TH-42PW5)
<ul> <li>Wall-hanging bracket (vertical)</li> </ul>	TY-WK37PV3 (TH-37PW5), TY-WK42PV1 (TH-42PW5)
<ul> <li>Wall-hanging bracket (angled)</li> </ul>	TY-WK42PR1 (TH-42PW5)
Ceiling unit	TY-CE42PS1
<ul> <li>Scart/Component Terminal Board</li> </ul>	TY-37TM5TB (TH-37PW5), TY-42TM5TB (TH-42PW5)
	TY-37TM4ZB (TH-37PW5), TY-42TM4ZB (TH-42PW5)
Receiver	TU-PT600B
Tuner Terminal Board	TY-37TM5H (TH-37PW5), TY-42TM5H (TH-42PW5)
Connecting Cable	TY-SCP15C03

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 should never be attempted.

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.

#### **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.

### 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**

#### Check that you have the accessories and items shown Remote Control Batteries for the Remote **Guarantee Card** Operating Instruction book **Control Transmitter** Transmitter **Panasonic** EUR646525 (2 × R6 Size) AC cord Fixing bands Ferrite core Ferrite core (small size) (large size) J0KF00000018 × 1 J0KG00000054 × 2 **Optional Accessories** Speakers Pedestal Wall stand Mobile stand TY-SP37P5W-S (TH-37PW5) TY-ST05-S TY-ST42PW1 TY-ST42PF3 TY-SP42P5W-S (TH-42PW5) (TH-42PW5) Wall-hanging bracket Wall-hanging bracket • Ceiling unit Scart/Component Terminal Board (vertical) TY-CE42PS1 TY-37TM5TB (TH-37PW5) (angled) TY-WK37PV3 (TH-37PW5) TY-42TM5TB (TH-42PW5) TY-WK42PR1 (TH-42PW5) TY-WK42PV1 (TH-42PW5) • RCA Terminal Board • Tuner Terminal Board Receiver Connecting Cable TY-37TM4ZB(TH-37PW5) TU-PT600B TY-37TM5H (TH-37PW5) TY-SCP15C03 TY-42TM4ZB(TH-42PW5) TY-42TM5H (TH-42PW5) 15 m (49.2 ft) ®®®®®®®®®®®®

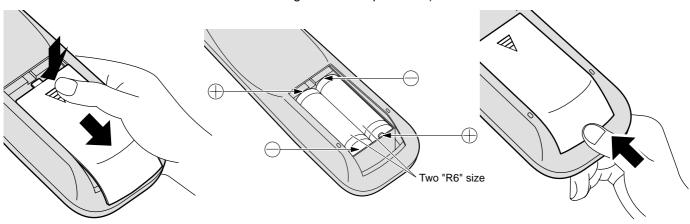
For assembling

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

### **Remote Control Batteries**

#### Requires two R6 batteries.

- 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

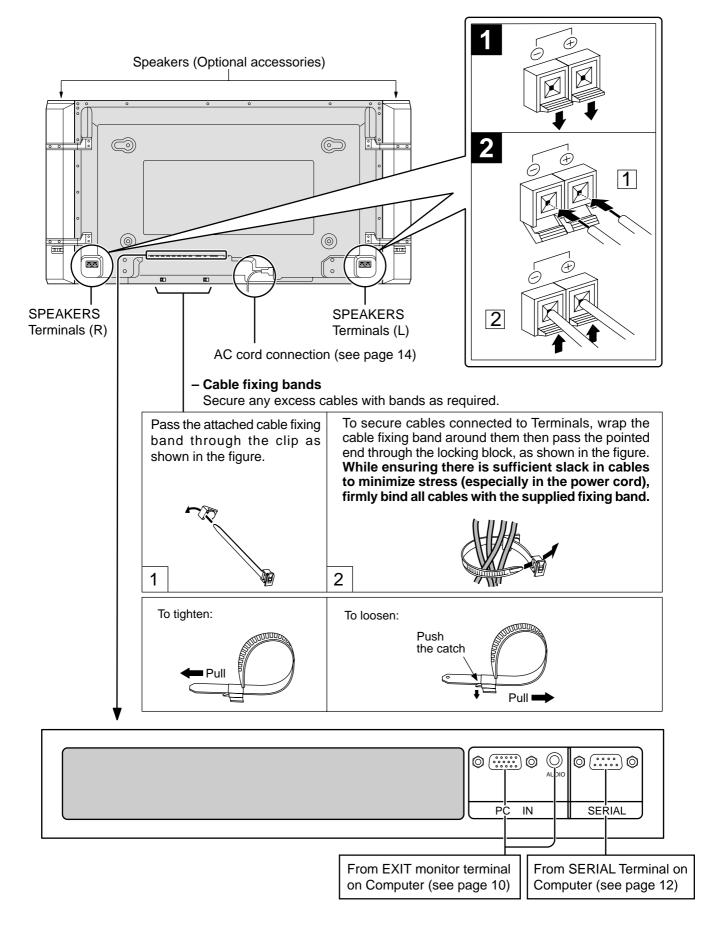
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.

#### 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.

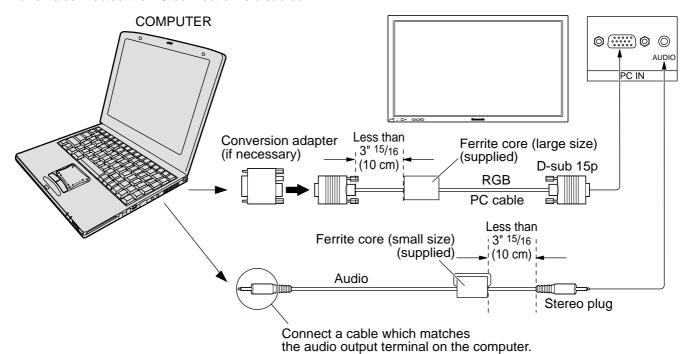
### **Connections**

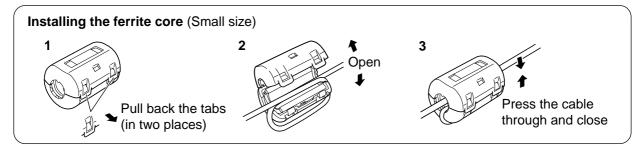
When connecting the speakers, be sure to use only the optional accessory speakers. Refer to the speaker's Installation Manual for details on speaker installation.

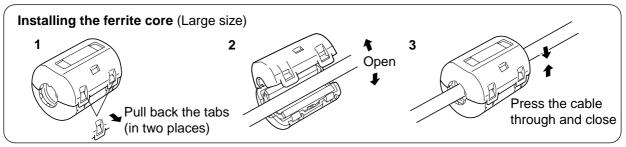


### **PC Input Terminals connection**

If tuner is connected the PC connection is disabled.



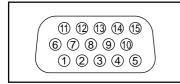




#### **Notes**

- (1) Computer signals which can be input are those with a horizontal scanning frequency of 15.6 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  $640 \times 480$  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**



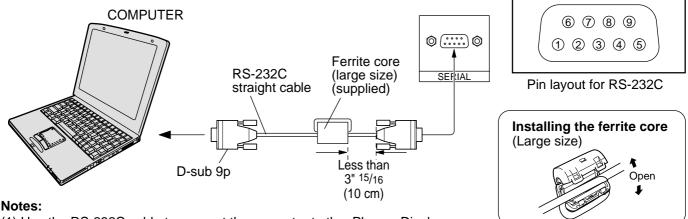
Pin Layout for PC Input Terminal

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

### **SERIAL Terminals connection**

If tuner is connected the SERIAL connection is disabled.

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



- (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.

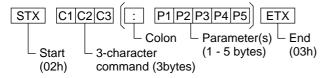
#### **Communication parameters**

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:

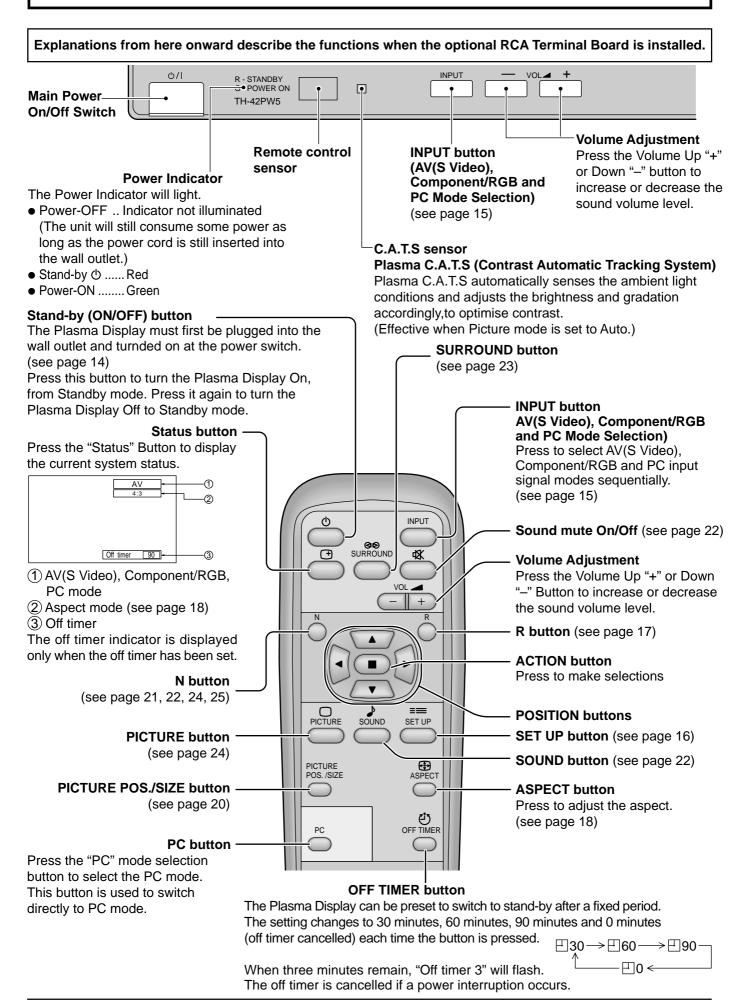
- (1) If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.
- (2) If an incorrect command is sent by mistake, this unit will send an "ER401" command back to the computer.

#### Command

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

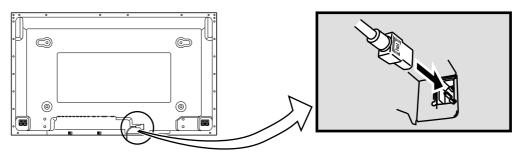
### **Basic Controls**



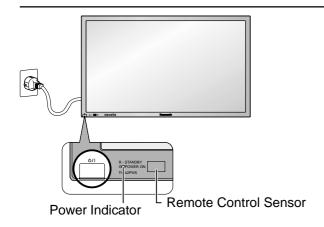
### Power On/Off and input signal selection

### **AC** cord connection

Connecting the AC cord plug to the Plasma Display.



### Power On/Off



### 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.

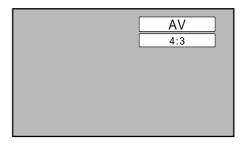
From the second time on, language selection can be done from the setup menu. (see page 15)

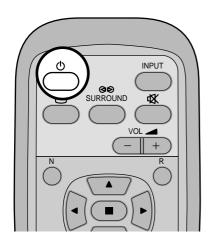
Select the desired language using the ▲ and ▼ keys and press the ACTION

■ button.



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







Press the 🖒 button on the remote control to turn the Plasma Display off.

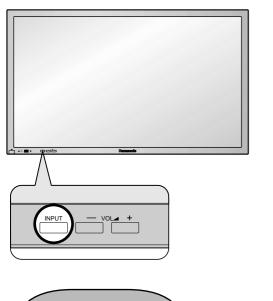
Power Indicator: Red (standby)

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 (b) switch on the Plasma Display, when the Plasma Display is on or in standby mode.

### Select the input signal



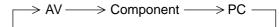


Press the INPUT button to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Select the input signals to be connected by installing the optional Terminal Board. (see page 32)

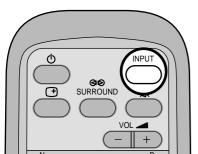
Input signals will change as follows:

For Component Input



For RGB Input

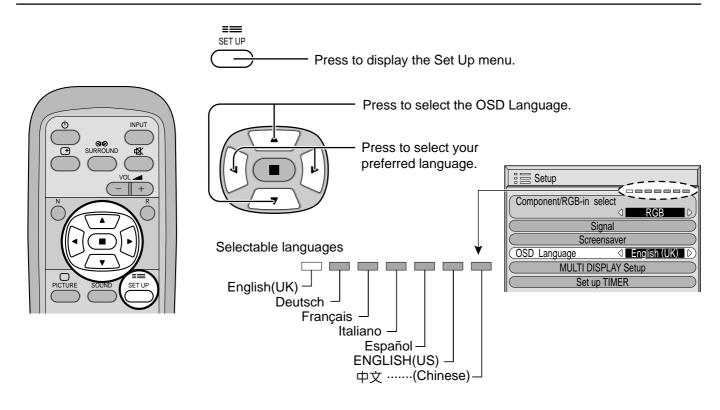




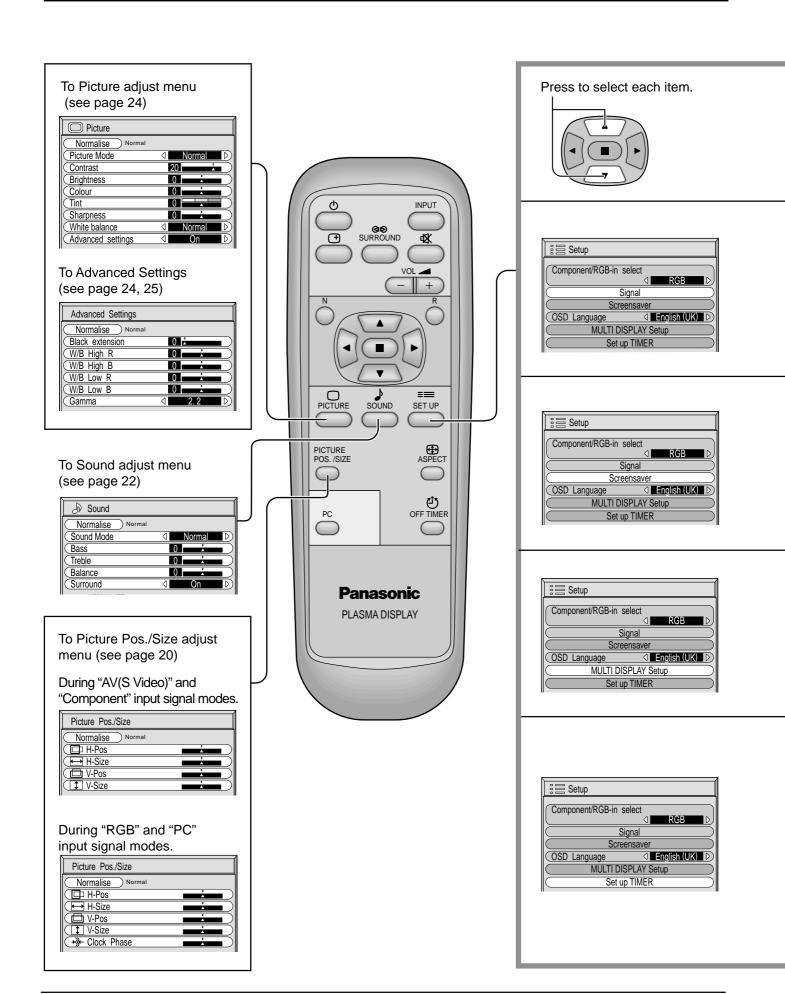
#### Note:

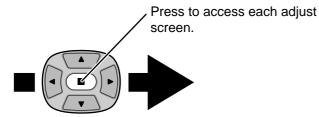
Input buttons do not work if no optional Terminal Board is installed.

### **Selecting the On-Screen Menu Language**



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

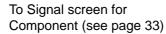






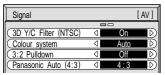
Press the R buttun to return to "Setup" menu.

To Signal screen for AV (see page 32, 33)

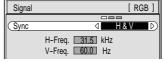


To Signal screen for RGB (see page 34)

To Signal screen for PC (see page 34)







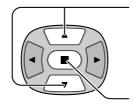


#### Note

"Signal" setup menu displays different setting condition for each input signals. (see page 15)

### To setup Screensaver (see page 28)

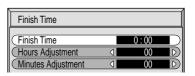




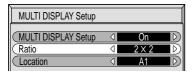
Press to select each time adjust screen.

Press to display each adjust screen.



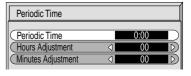


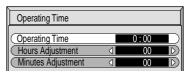
To setup Multidisplay screen (see page 30)



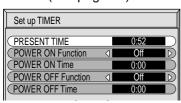


Press the R buttun to return to "Screensaver" menu.

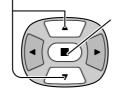




To Set up Timer selection screen (see page 26)



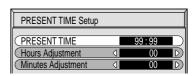
Press to select each Timer adjustment items.



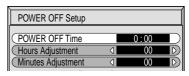
When select Timer adjustment item, press this button to Set up TIMER screen.



Press the R buttun to return to "Setup" menu.

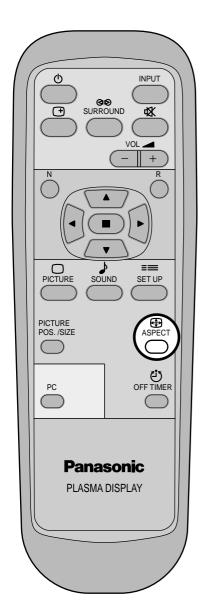


	0:00	
٥	00	
4	00	
	4	0:00



### **ASPECT Controls**

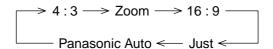
The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.





#### **ASPECT** button

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



#### Notes:

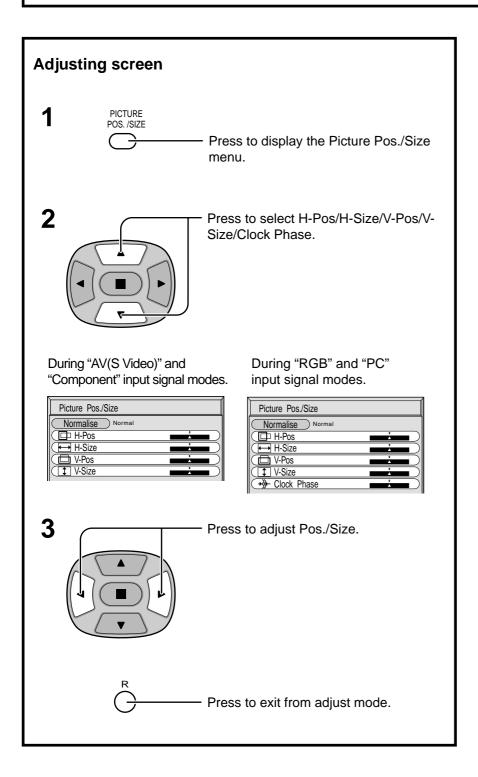
- (1) During RGB and PC input signal modes, the mode switches between "4:3", "Zoom" and "16:9" only.
- (2) For a 525p (480p) signal input during "Component" input signal mode, the mode switches between "Zoom" and "16:9" only.
- (3) For a 1,125i (1,080i), 750p (720p) signal input during "Component" input signal mode, the mode is set to "16:9" mode, and switching is not possible.
  - For a 525i (480i), 625i (575i) 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).

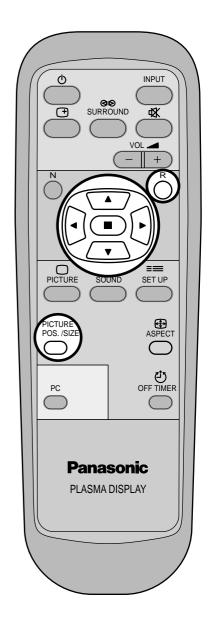
Mode	Picture	Explanation
4:3	4 3 3	4:3 will display a 4:3 picture at its standard 4:3 size.
Zoom	4 0 16 Zoom 9 9	Zoom mode magnifies the central section of the picture.
16:9	3 <b>→</b> 16 16:9 9	16:9 will display the picture at its maximum size but with sight elongation.
Just	3 <b>→</b> Just 9	Just mode 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   For a 4:3 image	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 displayed in 4:3 mode for an extended period, as this can cause a parmanent after-image to remain on the Plasma Display Panel.

# **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 (575i), 525p (480p), 1,125i (1,080i) and 625p (575p), 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	0 0 -	-
	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		1
Clock Phase (RGB/PC in Mode)	Flickering and distortion can be eliminated by to carry out adjustment.	using the Position Left "◄" or Right "▶" button

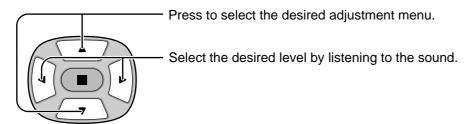
# - Helpful Hint ( Normalise Normalisation)

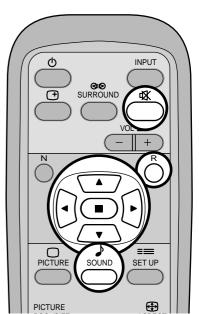
While the Picture Pos./Size display is active, if either the N button on the remote control is pressed at any time or the (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

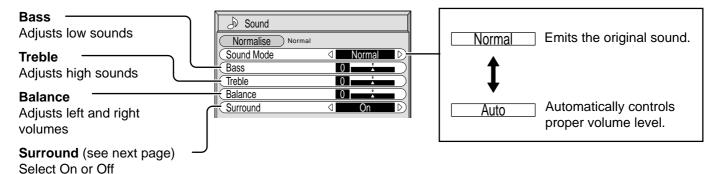
# **Sound Adjustment**

1 Press to display the Sound menu.

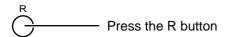
2 Select to adjust each item.







• To end adjustments



#### Note:

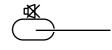
Press the SURROUND button to directly turn the surround effect On and Off. (see next page) Bass, Treble and Surround settings are memorized separately for each Sound mode (Normal, Auto).

# 

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

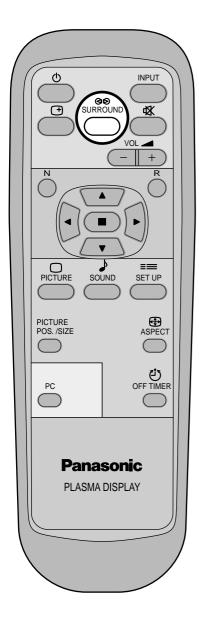
Useful when answering the phone or receiving unexpected visitors.



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**



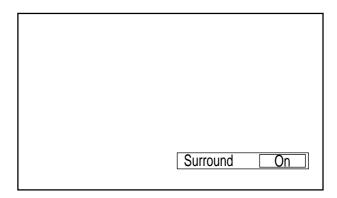


#### **SURROUND Button**

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.





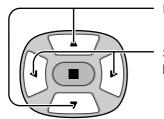
#### Note:

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

### **Picture Adjustments**

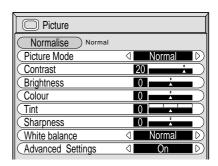
PICTURE
Press to display the Picture menu.

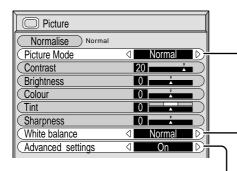
2 Select to adjust each item.



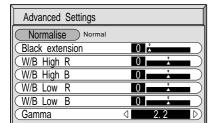
Press to select the menu to adjust.

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





Press the left ◀ or right ▶ button to select "On". Press the down ▼ button to enter Advanced Settings mode.
Advanced Settings On
Enables fine picture adjustment at a



professional level (see next page).

Advanced Settings Off Displays images with settings of the Picture menu.

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



#### Auto

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

#### Norma

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.

• Can be selected for AV/Component.

#### 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 next page)

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





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 colour saturation.
Tint (NTSC only)	Reddish	Greenish	Adjust for nice skin colour.
Sharpness	Less	More	Adjusts picture sharpness.

#### Notes:

- "Colour" and "Tint" 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(S Video), Component, RGB and PC).
- (4) The "Tint" setting can be adjusted for NTSC signal only during "AV (S Video)" input signal.

#### Note:

In picture adjustment mode, bright pictures may not show any noticeable change when contrast is increased. Likewise, dark pictures will show little change when contrast is reduced.

### **Advanced Settings**

Item	Eff	ect	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(S Video), Component, RGB and PC).
- (3) The adjustment range values should be used as an adjustment reference.

# - Helpful Hint ( Normalise Normalisation)

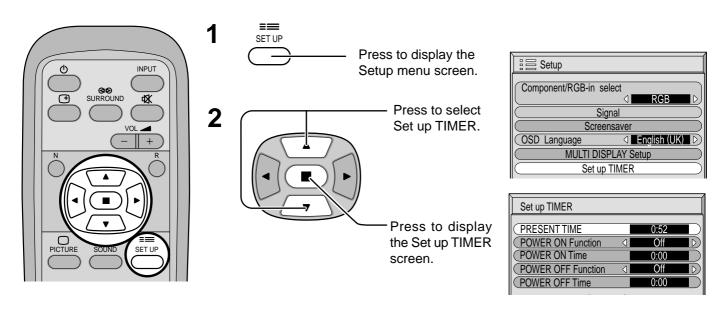
On the remote control unit, while the "Advanced settings" menu is displayed, if either the N button is pressed at any time or the (ACTION button) is pressed during "Normalise", then all adjustment values are returned to the factory settings.

# **Set up TIMER**

The timer can switch the Plasma Display On or Off.

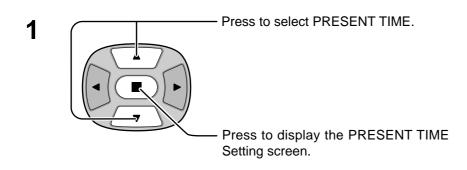
Before attempting Timer Set, confirm the PRESENT TIME and adjust if necessary. Then set POWER ON Time / POWER OFF Time.

Display the Set up TIMER screen

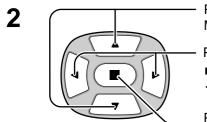


### **PRESENT TIME Set**

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



PRESENT TIME Setup			
PRESENT TIME		99 : 99	
Hours Adjustment	4	00	
Minutes Adjustment	4	00	
-	-	- 00	

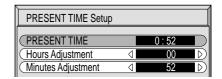


Press to select Hours Adjustment / Minutes Adjustment.

Press to set up Hours or Minutes.

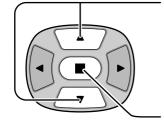
▶ button: Forward
■ button: Back

Press to store PRESENT TIME Setup.



### **TIMER Set**

1



Press to select POWER ON Time / POWER OFF Time.

Set up TIMER

PRESENT TIME

POWER ON Function

POWER ON Time

POWER OFF Function

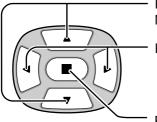
Off

POWER OFF Time

0:00

Press to display the POWER ON Setup / POWER OFF Setup screen.

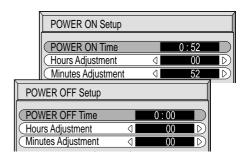
2



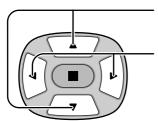
Press to select Hours Adjustment/ Minutes Adjustment.

Press to adjust each time.

Press to complete POWER ON Time / POWER OFF Time.



3



Press to select POWER ON Function/ POWER OFF Function.

Press to select On.

Set up TIMER			
PRESENT TIME		0:52	
POWER ON Function	4	On	
POWER ON Time		0:00	
POWER OFF Function	4	On	
POWER OFF Time		0:00	

4



Press twice to exit from Setup.

#### Note:

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

### Screensaver (For preventing after-images)

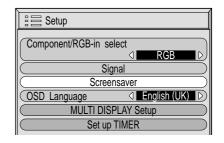
Do not display a still picture, especially in 4:3 mode, for any length of time. If the display must remain on, a Screensaver should be used.

1 SET UP

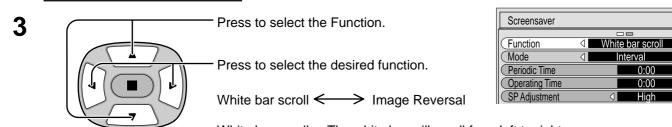
Press to display the Setup menu screen.

Press to select the Screensaver.

Press to select the Screensaver screen.



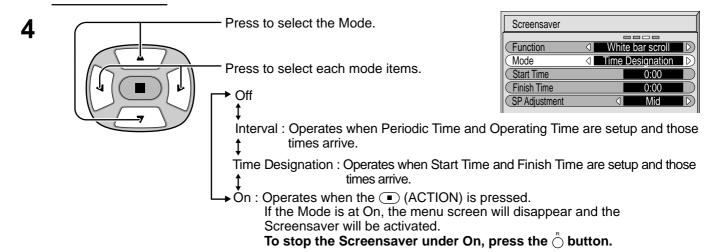
#### **Reversal / Scroll selection**



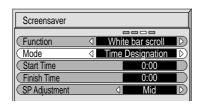
White bar scroll : The white bar will scroll from left to right.

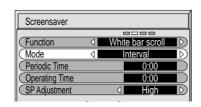
Image Reversal : Negative image will be displayed on the screen.

#### Mode selection



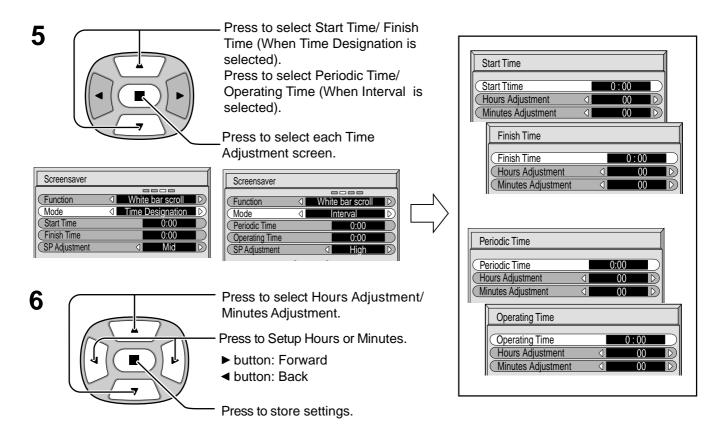
After selecting Time Designation or Interval, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when "Mode" is "on" or "off.")







### **Setup of Screensaver Time**



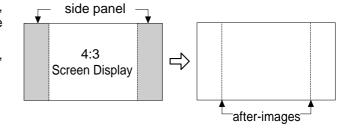
Note: Timer function will not work unless "PRESENT TIME" is set.

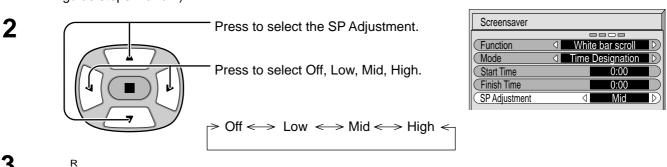
### **Side Panel Adjustment**

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.

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.

Press to exit from Screensaver.

• 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 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.

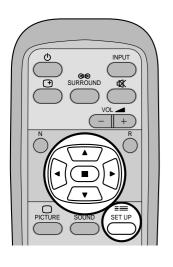
group of 4 (2×2)



group of 9 ( $3\times3$ )



### **How to Setup MULTI DISPLAY**

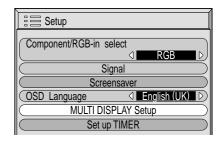


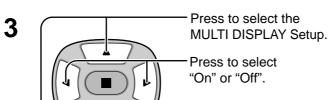
1 SET UI

Press to display the Setup menu screen.

Press to select the MULTI DISPLAY Setup.

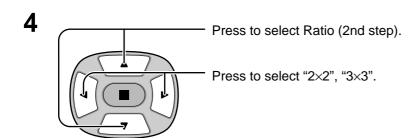
Press to display the "MULTI DISPLAY Setup" menu.

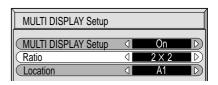


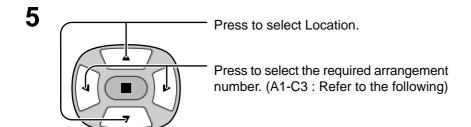


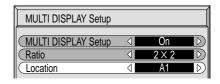
MULTI DISPLAY Setup

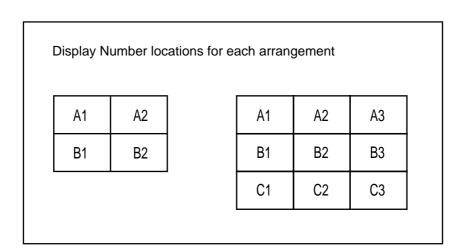
### How to set the display location number for each Plasma Display

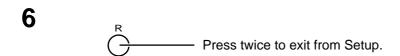












#### Notes:

- (1) For PC or RGB input signals, normal multi-display magnification is only available at the VGA resolution.
- (2) The multi-display capability is not functional for component signals.
- (3) The MultiDisplay (multiskærmdisplay) function does not display certain input signals from the terminals of the installed option boards listed below:
  - Component input signals from the scart and RCA terminals of scart terminal board (TY-37TM5TB or TY-42TM5TB)

### **Setup for Input Signals**

### Component/RGB-in Select

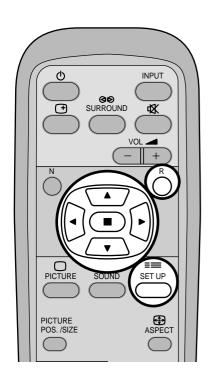
Select the input signals to be connected by installing the Optional Terminal Board.

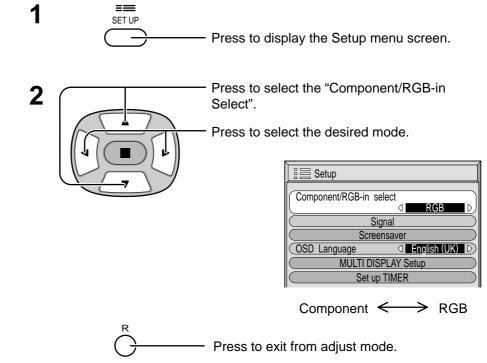
(Refer to the service manual for the optional Terminal Board.)

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

Y, P<sub>B</sub>, P<sub>R</sub> signals ⇒ "Component"

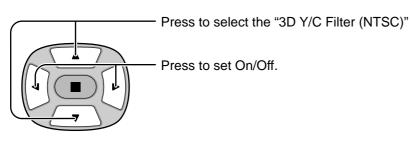
R, G, B, HD, VD signals ⇒ "RGB"

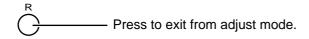


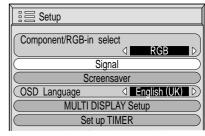


### 3D Y/C Filter – For NTSC AV images

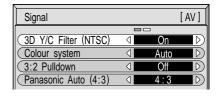
Select "Signal" from the "Setup" menu during AV(S Video) input signal mode. ("Signal [AV]" menu is displayed.)







Press (ACTION) button

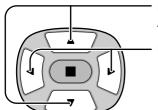


#### Notes:

- (1) When On, this setting only affects NTSC input signals.
- (2) 3D Y/C Filter does not operate by input signal from Scart Terminal.
  With the optional Scart/Component Terminal Board installed, 3D Y/C Filter does not operate by input signal from Scart Terminal of the board.

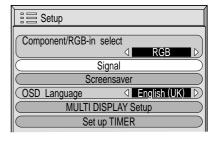
### **Colour system / Panasonic Auto**

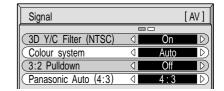
Select Signal from the "Setup" menu during AV(S Video) input signal mode.("Signal [AV]" menu is displayed.)



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.

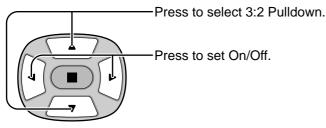
Mode	Function
Colour system	Set the colour system to match the input signal. If set to "Auto", the colour system is determined automatically.
	Auto Auto SECAM AM.NTSC NTSC
Panasonic Auto	Set to "4:3" to view 4:3 images in an unchanged format when Panasonic Auto is
(4:3)	selected. If you would like to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

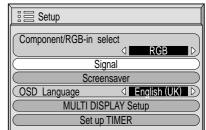
### 3:2 Pulldown

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



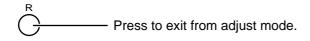


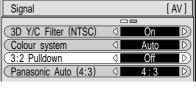
Press (ACTION) button

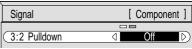
#### Note:

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

- NTSC signal input during "AV(S Video)" input signal mode.
- 525i(480i) signal input during "Component" input signal mode.

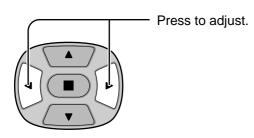


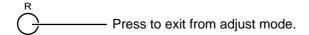


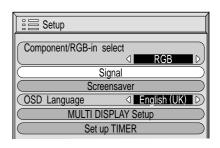


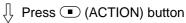
### **Sync**

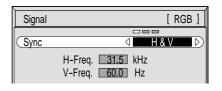
Select Signal from the "Setup" menu during RGB or PC input signal mode.

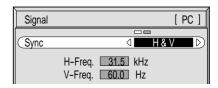












#### Setting RGB sync signal:

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.

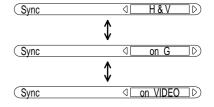
on G: Uses a synchronized signal on the Video G signal, which is input

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.



### 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 15.6 - 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 24, 25) Colour system (see page 33)	

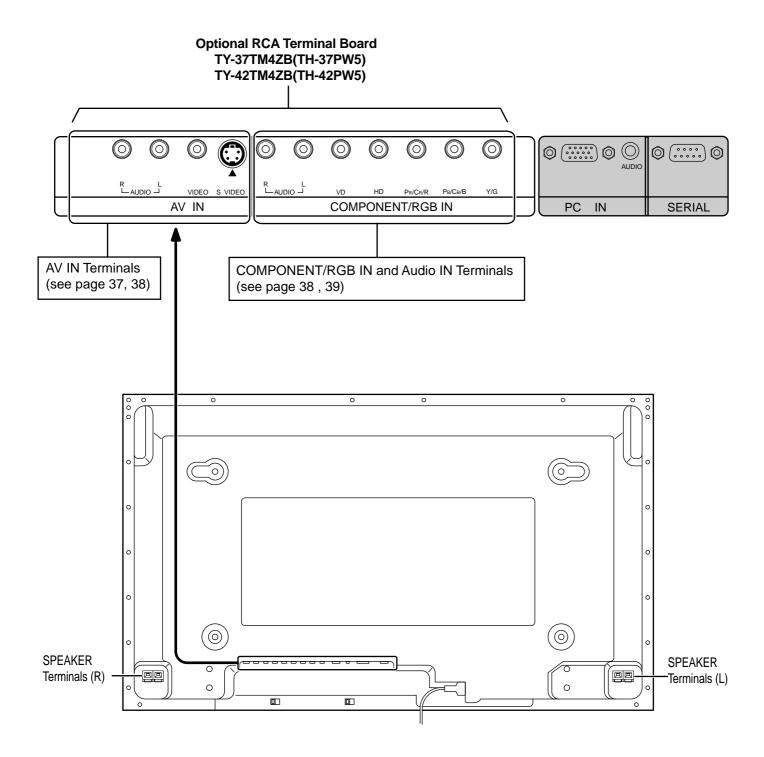
#### Plasma Display panel

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.
Panasonte  After-images appear	Do not allow a still picture or any part of a still picture i.e. edges 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.  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.

### **Connections**

#### **Connection to the Optional Terminal Board**

By installing the optional RCA Terminal Board, the Plasma Display can handle high quality input signals such as AV (S Video), DVD, and RGB. Below is the connecting method when the optional RCA Terminal Board is installed.



#### Notes:

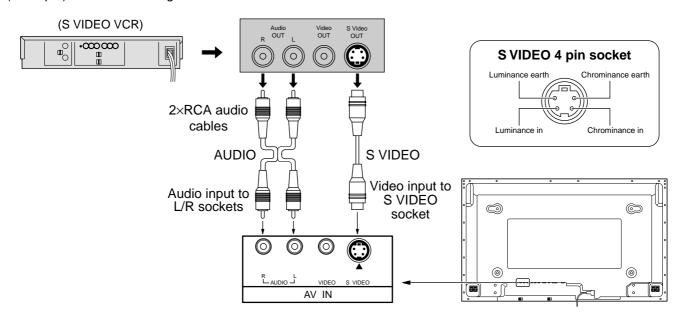
After installing the Optional Terminal Board, the Setup menu screen on the Plasma Display will change. (The input signal cables should be connected to the relevant terminals).

- The input signals that may be selected by the INPUT button will change.
- The required mode, either "Component" or "RGB" and "Component/RGB-In Select", will be available for selection.
- On the Setup menu screen, the setting contents under Signal will change.

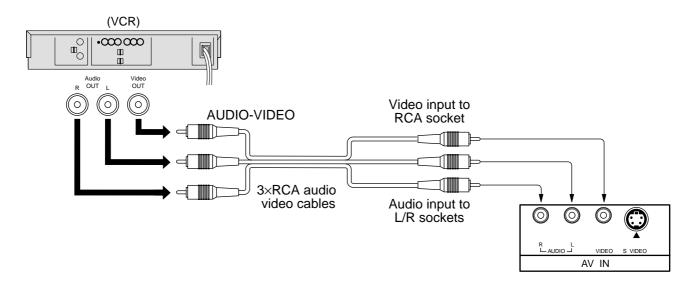
### **AV Input Terminals connection**

#### Connect the signal source equipment

(Example) When connecting an S VIDEO VCR



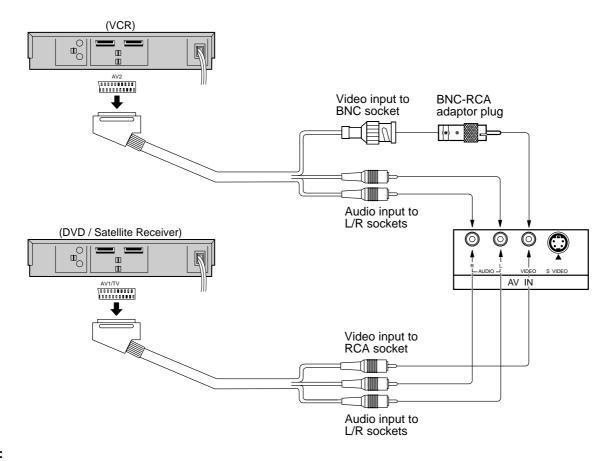
(Example) When connecting 3×RCA audio video cables



#### **Notes**

- (1) S-Video input will override the composite video signal when S-Video lead is connected.
- (2) Additional equipment and cables shown are not supplied with this set.

(Example) When connecting 21 pin scart cables

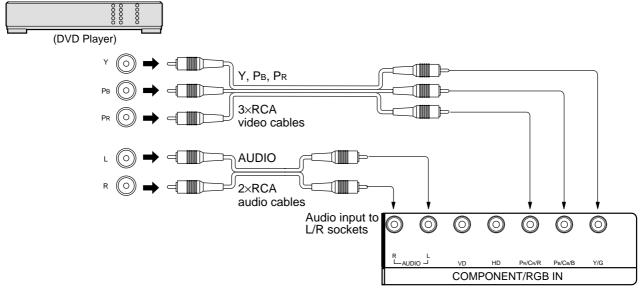


#### Notes:

- (1) Additional equipment, cables and an adaptor plug shown are not supplied with this set.
- (2) 21 pin connectors and 21 pin scart plugs are connectors used in Europe.
- (3) The S Video input will override the composite video signal when S Video lead is connected.

### Component/RGB Input connection

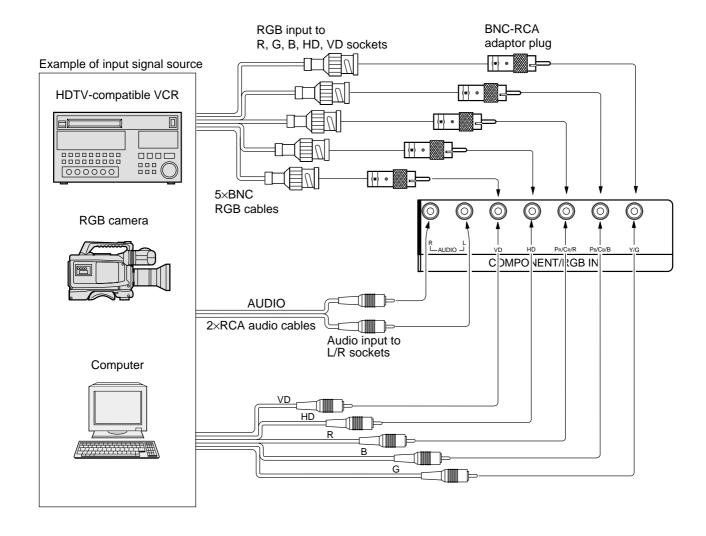
#### Component signals (Y, PB, PR) connection



#### Notes:

- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "Component". (see page 32)
- (2) Additional equipment and cables shown are not supplied with this set.

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



#### Notes:

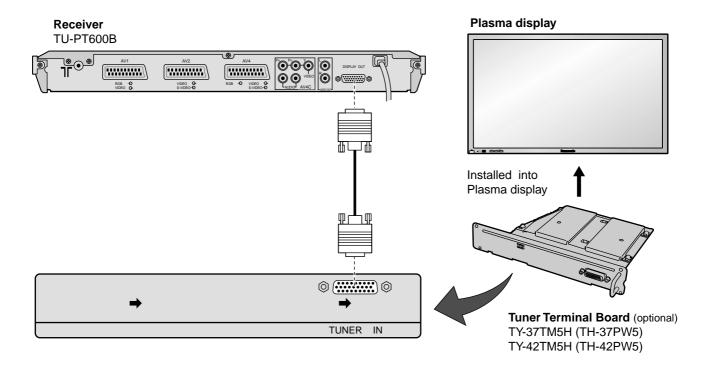
- (1) Change the "Component/RGB-in" setting in the "Setup" menu to "RGB". (see page 32)
- (2) Additional equipment, cables and adaptor plugs shown are not supplied with this set.

### **Dedicated Receiver connection**

Connecting Dedicated Receiver to a display fitted with a Tuner Terminal Board.

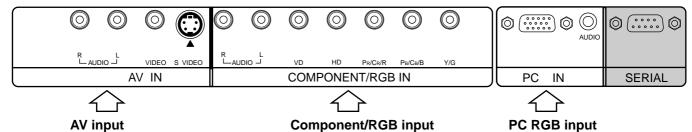
#### Notes:

PC and Serial cannot be accessed when the tuner is connected as shown.



## Input signal can be displayed

#### AV/Component /RGB/ PC input signals



#### **AV** input

	signal name	horizontal frequency(kHz)	vertical frequency(Hz)
1	NTSC	15.734	59.95
2	PAL	15.625	50
3	PAL60	15.734	59.95
4	SECAM	15.625	50
5	Modified NTSC	15.734	59.95

\* Mark:

Input signal can be displayed.

Component /RGB/PC input				input signai ca	n be disp	iayeu.
	signal name	horizontal frequency(kHz)	vertical frequency(Hz)	Component	RGB	PC
1	525 (480) /60i	15.734	59.94	*	*	*
2	625 (575) /50i	15.625	50	*	*	*
3	525 (480) /60p	31.468	59.94	*	*	
4	625 (575) /50p	31.25	50	*	*	*
5	750 (720) /60p	45	60	*	*	*
6	1,125 (1,080) /60i	33.75	60	*	*	*
7	1,125 (1,080) /50i	28.125	50	*	*	*
8	1,125 (1,080) /24p	27	24	*	*	*
9	1,125 (1,080) /24sF	27	48	*	*	*
10	$640 \times 400 @ 70$	31.5	70		*	*
11	$640 \times 480 @ 60$	31.5	59.94		*	*
12	Macintosh13" (640 × 480)	35	67		*	*
13	$640 \times 480 \ @75$	37.5	75		*	*
14	$852 \times 480 @ 60$	31.7	60		*	*
15	$800 \times 600 @ 60$	37.9	60		*	*
16	$800 \times 600 \ @75$	46.9	75		*	*
17	$800 \times 600 @ 85$	53.7	85		*	*
18	Macintosh16" (832 × 624)	49.7	75		*	*
19	1,024 × 768 @60	48.4	60		*	*
20	1,024 × 768 @70	56.5	70		*	*
21	1,024 × 768 @75	60	75		*	*
22	1,024 × 768 @85	68.7	85		*	*
23	Macintosh21" (1,152 × 870)	68.7	75		*	*
24	1,280 × 1,024 @60	64	60		*	*
25	1,280 × 1,024 @75	80	75		*	*
26	1,280 × 1,024 @85	91.1	85		*	*
27	1,600 × 1,200 @60	75	60		*	*

# **Specifications**

	TH-37PW5	TH-42PW5	
Power Source	220 - 240 V	AC, 50/60 Hz	
Power Consumption			
Normal use	225 W	295 W	
Stand-by condition	2.8 W	2.8 W	
Power off condition	1.5 W	1.5 W	
Plasma Display panel	Drive method AC type	Drive method AC type	
	37-inch, 16:9 aspect ratio	42-inch, 16:9 aspect ratio	
Contrast Ratio	300	00:1	
Screen size	818 mm (W) × 461 mm (H) × 939 mm (diagonal)	920 mm (W) × 518 mm (H) × 1056 mm (diagonal)	
	No. of pixels	No. of pixels	
	408,960 (852 (W) × 480 (H)) [2,556 × 480 dots]	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, Modified NTSC		
Scanning format	525i (480i), 625i (575i), 525p (480p), 625p (575p), 750p (720p), 1,125/60i, 50i,		
	24p, 24sF (1,080/60i, 50i, 24p, 24sF) SMPTE 274M		
PC signals	VGA display		
	VGA		
	SVGA, XGA, SXGA, UXGA (compresse	ed)	
	Horizontal scanning frequency 15.6 - 110 kHz		
	Vertical scanning frequency 48 - 120 Hz	Z	
Connection terminals			
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 JACK)	0.5 Vrms (high impedance)	
SERIAL	EXTERNAL CONTROL TERMINAL (D-SUB 9PIN)	RS-232C COMPATIBLE	
SPEAKERS (6 Ω)	16W [8 W + 8 W] (10 % THD)	16W [8 W + 8 W] (10 % THD)	
Accessories Supplied			
Remote Control Transmitter	EUR646525		
Batteries	2 × R6 Size		
Fixing bands	Fixing bands (TMME203 or TMME 187) × 2		
Ferrite core	I0KE0000018 × 1	, J0KG0000054 × 2	

	TH-37PW5	TH-42PW5	
Optional Supplied			
Speakers	TY-SP37P5W-S	TY-SP42P5W-S	
Pedestal	TY-S <sup>-</sup>	Γ05-S	
Wall stand	TY-ST	42PW1	
Mobile stand		TY-ST42PF3	
Wall-hanging bracket (vertical)	TY-WK37PV3	TY-WK42PV1	
Wall-hanging bracket (angled)		TY-WK42PR1	
Ceiling unit	TY-CE	42PS1	
Scart/Component Terminal Board	TY-37TM5TB	TY-42TM5TB	
RCA Terminal Board	TY-37TM4Z B	TY-42TM4ZB	
Receiver	TU-PT600B		
Tuner Terminal Board	TY-37TM5H	TY-42TM5H	
Connecting Cable	TY-SCP15C03		
Dimensions (W × H × D)	920mm $\times$ 550 mm $\times$ 89 mm	1,020mm × 610 mm × 89 mm	
	920 mm 89 mm	610 mm	
Mass (Weight)	approx. 24.0 kg net (main unit only) approx. 28.0 kg net (main unit only) approx. 28.2 kg (with speakers) approx. 32.2 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/