



PLASMA DISPLAY MONITOR

GD-V500PZU

INSTRUCTIONS



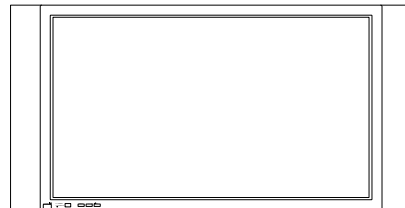
WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.
Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

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 grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-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 grounding plug.


For customer Use:
Enter below the Model No. and the Serial No. which is located on the rear panel of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____



Important Safety Instructions

- 1) Read these instructions.
All the safety and operating instructions should be read before the appliance is operated.
- 2) Keep these instructions.
The safety and operating instructions should be retained for future reference.
- 3) Heed all warnings.
All warnings on the appliance and in the operating instructions should be adhered to.
- 4) Follow all instructions.
All operating and use instructions should be followed.
- 5) Do not use this apparatus near water.
For example, near a bathtub, wash bowl, kitchen sink, or laundry tube, in a wet basement, or near a swimming pool, and the like.
- 6) Clean only with dry cloth.
Do not use liquid cleaners or aerosol cleaners. Use a dry cloth for cleaning.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Slots and Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments / accessories specified by the Manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
This will prevent damage to the product due to Lightning and power-line surges.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

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Dear JVC Customer

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

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.

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.

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FCC STATEMENT

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by JVC could cause harmful interference and would void the user's authority to operate this device.

CANADIAN NOTICE:

This Class A digital apparatus complies with Canadian ICES-003.

Safety Precautions

WARNING

Set up

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

- The Plasma Display Monitor may fall off or tip over.

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

- If water spills onto the Plasma Display Monitor 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 Monitor, please consult an Authorized Service Center.

Do not cover the ventilation holes.

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

If using the pedestal (optional accessory), leave a space of 3 15/16" (10 cm) or more at the top, left and right, 2 3/8" (6 cm) or more at the bottom, and 2 3/4" (7 cm) or more at the rear. If using some other setting-up method, leave a space of 3 15/16" (10 cm) or more at the top, bottom, left and right, and 3/4" (1.9 cm) or more at the rear.

AC Power Supply Cord

The Plasma Display Monitor is designed to operate on 120 V AC, 50/60 Hz.

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 should not be used.

Do not handle the power cord plug with wet hands.

- Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.

- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damages to the power cable which can cause fire or electric shock. If damage to the cable is suspected, have it repaired at an Authorized Service Center.

If the Plasma Display Monitor is not in use for a long period of time, unplug the power cord 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 odor is detected from the Plasma Display Monitor, unplug the power cord immediately.

- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

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

- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

Safety Precautions

CAUTION

This Plasma Display Monitor 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 JVC)

- Speakers TS-C5000SPG
- Stand Unit TS-C50P1G
- Wall Mounting Unit TS-C50P6G
- Wall Mounting Unit (angled) TS-C50P2G
- Ceiling Suspension Unit TS-C50P3G

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

When using the Plasma Display Monitor

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

- Top of Plasma Display Monitor is usually very hot due to the high temperature of exhaust air being released through the ventilation holes. Burns or personal injuries can happen if any body parts are brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display if its ventilation holes are blocked.

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

- Moving the Display with its cables attached might damage the cables which, in turn, can cause fire or electric shock.

Disconnect the power plug from the wall outlet 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 from becoming dusty.

- Built-up dust on the power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from the wall outlet and clean it 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, soak a soft, lint-free cloth in a weak detergent solution and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, 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. 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 a weak detergent solution 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 Monitor. 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.

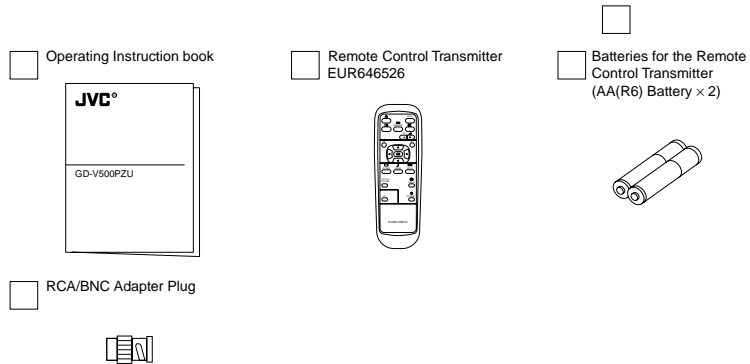
Note:

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 Monitor.

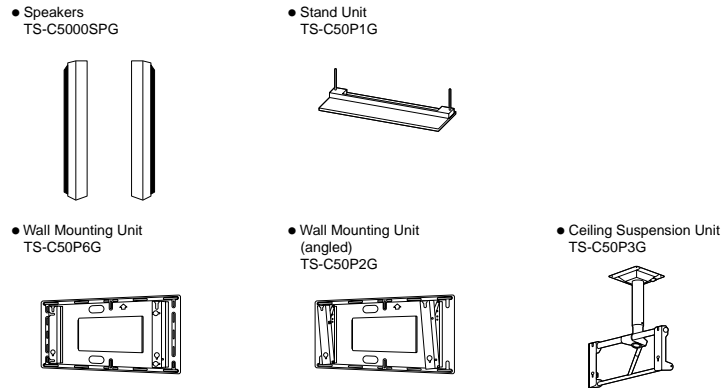
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

Accessories

Accessories Supplied



Optional Accessories



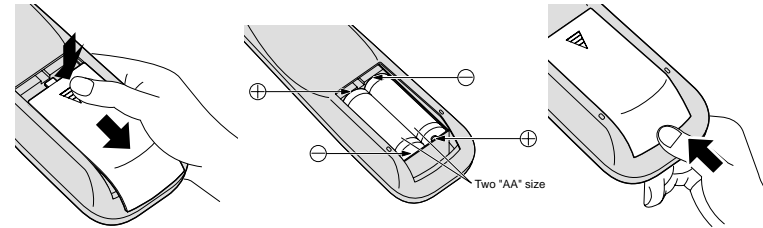
For assembling
Full instructions are supplied with each optional accessories for use with this Plasma Display Monitor.

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Remote Control Batteries

Requires two AA batteries.

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



Helpful Hint:

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

⚠ Precaution on battery use

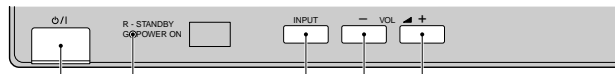
Incorrect installation can cause battery leakage and corrosion that will damage the remote control transmitter.

Observe the following precautions:

1. Batteries should 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 the remote control acts sporadically or stops operating the Plasma Display.

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Basic Controls



Main Power On/Off Switch
 The Power Indicator will light.
 ● Power-OFF Indicator not illuminated (The unit will still consume some power as long as the power cord is still inserted into the wall outlet.)
 ● Stand-by ○ Red
 ● Power-ON Green

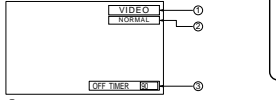
Power Indicator
 The Power Indicator will light.

Input button (VIDEO (S-VIDEO)/COMPONENT, RGB/PC Mode Selection)
 Push the "INPUT" button to select VIDEO(S-VIDEO)/COMPONENT or RGB/PC input signal modes sequentially.

Volume Adjustment
 Push the Volume Up "+" or Down "-" button to increase or decrease the sound volume level.

Stand-by (ON/OFF) button
 The Plasma Display Monitor must first be plugged into the wall outlet and turn on at the power switch (see page 18).
 Push this button to turn the Plasma Display Monitor ON, from STANDBY mode. Push it again to turn the Plasma Display Monitor OFF to STANDBY mode.

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



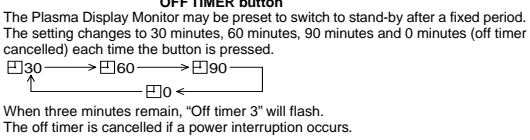
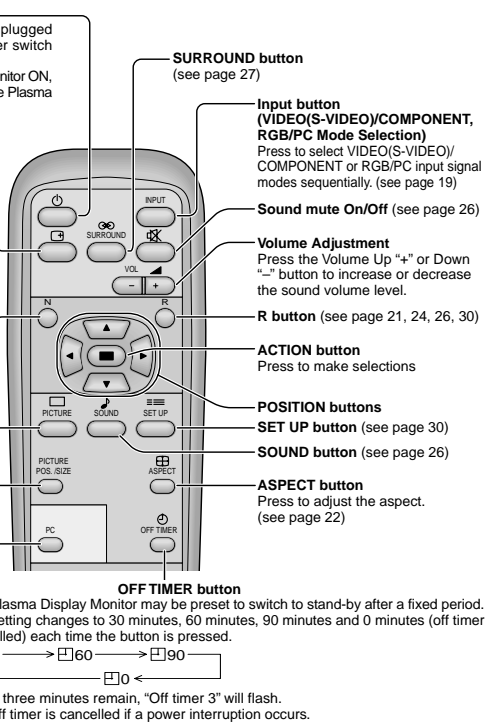
① VIDEO(S-VIDEO)/COMPONENT, RGB/PC mode
 ② Aspect mode (see page 22)
 ③ Off timer
 The off timer indicator is displayed only when the off timer has been set.

N button
 (see page 25, 26, 28, 29)

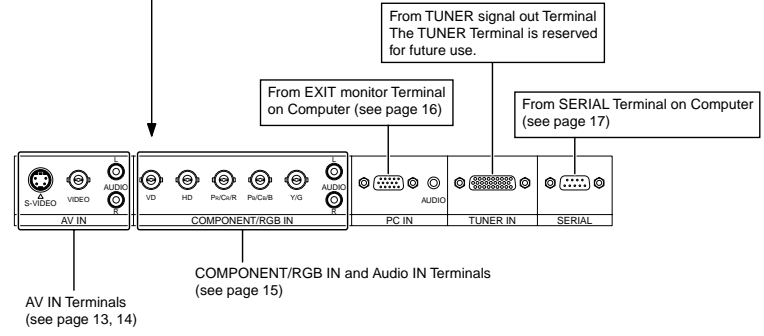
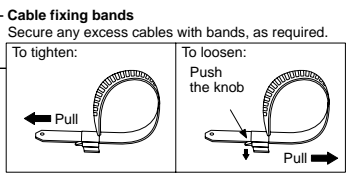
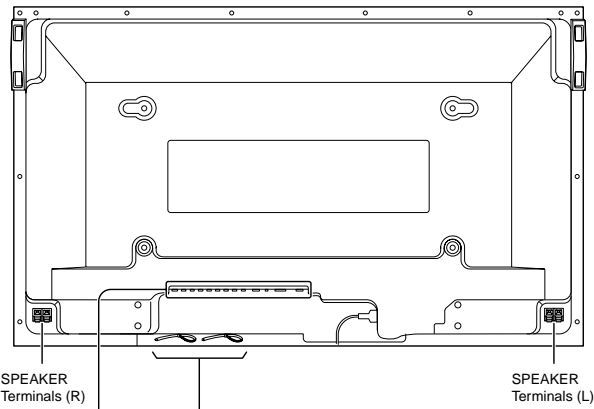
PICTURE button
 (see page 28)

PICTURE POS./SIZE button
 (see page 24)

PC button
 Push the "PC" mode selection button to select the PC mode. This button is used to switch directly to PC mode.



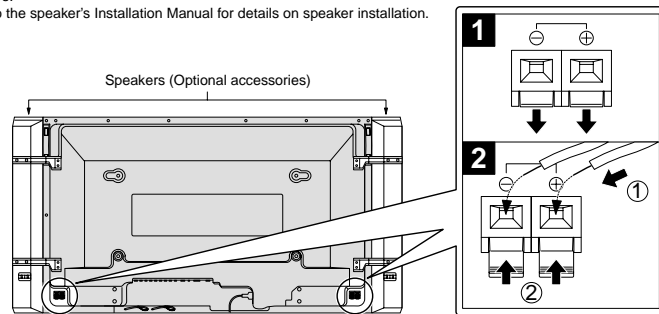
Connections



Connections

How to connect the speakers

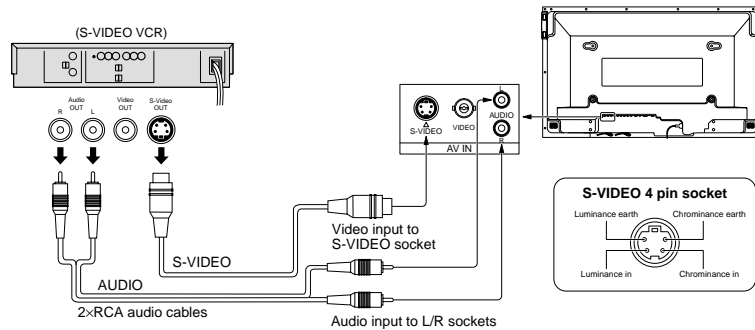
When connecting the speakers, be sure to use only the optional accessory speakers.
Refer to the speaker's Installation Manual for details on speaker installation.



How to connect the AV Input Terminals

Connect the signal source equipment (see pages 14 to 17).

(Example) When connecting an S-VIDEO VCR

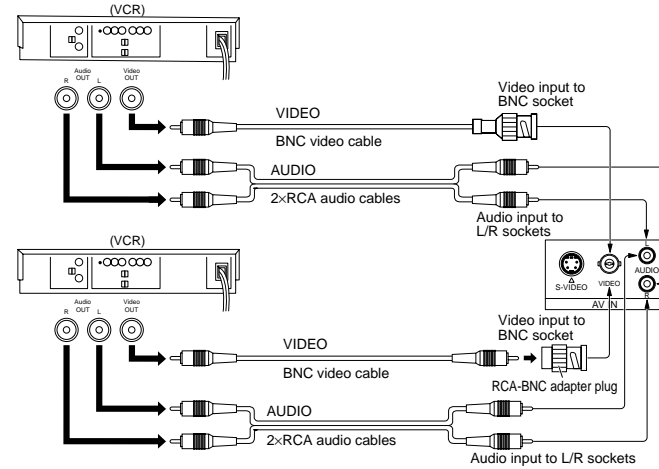


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Connections

How to connect the AV Input Terminals

VIDEO signal connection

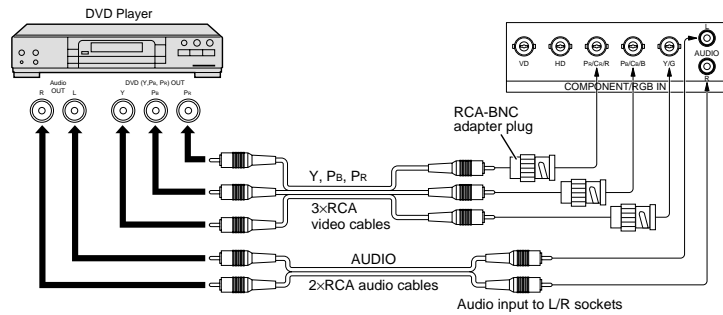


14

Connections

How to connect the COMPONENT/RGB Input Terminals

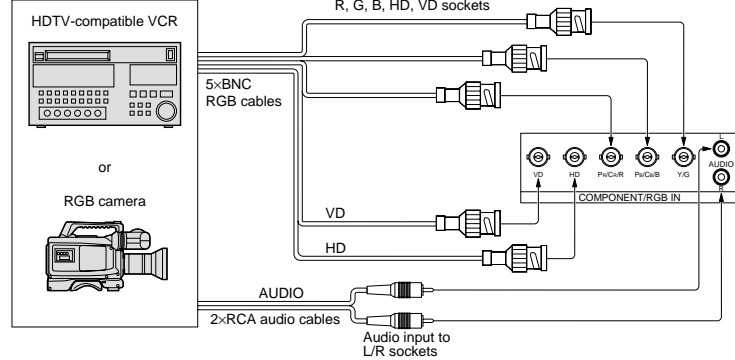
Component signals (Y, Pb, Pr) connection



- Notes:**
 (1) Change the "COMPONENT/RGB-IN" setting in the "SET UP" menu to "Y/PB/PR". (see page 30, 32)
 (2) Additional equipment and cables shown are not supplied with this set.

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

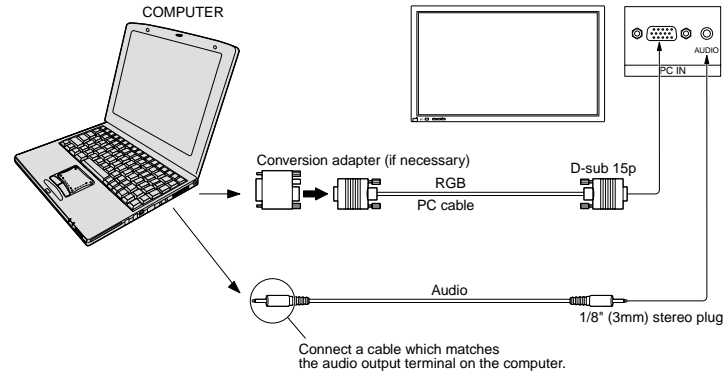
Example of input signal source



- Notes:**
 (1) Change the "COMPONENT/RGB-IN" setting in the "SET UP" menu to "RGB". (see page 30, 32)
 (2) Additional equipment and cables shown are not supplied with this set.

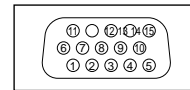
Connections

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 of 1024 x 768 dots when the aspect mode is set to "NORMAL", and 1366 x 768 dots when the aspect mode is set to "FULL". 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) An adapter is required to use the PC cable (D-sub 15P) to connect a Macintosh computer to the set.
 (6) There is no need to use an adapter for computers with DOS/V compatible D-sub 15P terminal.
 (7) The computer shown in the illustration is for example purposes only.
 (8) Additional equipment and cables shown are not supplied with this set.
 (9) 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



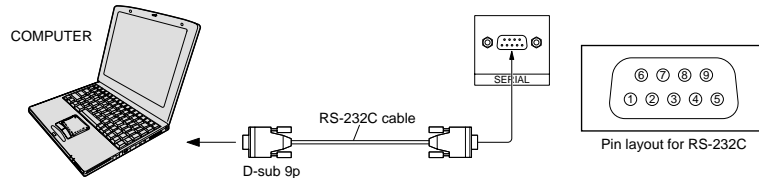
Pin layout for PC input terminal

| 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 | B | ⑧ | GND (Ground) | ⑬ | HD/SYNC |
| ④ | GND (Ground) | ⑨ | NC (not connected) | ⑭ | VD |
| ⑤ | GND (Ground) | ⑩ | GND (Ground) | ⑮ | SCL |

Connections

How to connect the SERIAL Terminals

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



Notes:

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

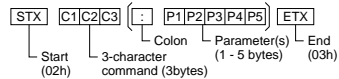
Communication parameters

| Signal level | RS-232C compliant |
|------------------------|-------------------|
| Synchronization method | Asynchronous |
| Baud rate | 9600 bps |
| Parity | None |
| Character length | 8 bits |
| Stop bit | 1 bit |
| X parameter | None |
| S parameter | None |

| RS-232C Pin assignment | |
|------------------------|---------|
| Pin number | Signal |
| ② | R X D |
| ③ | T X D |
| ⑤ | GND |
| ④ • ⑥ | NC |
| ⑦ | Shorted |
| ⑧ | |
| 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.



Note:

- (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.

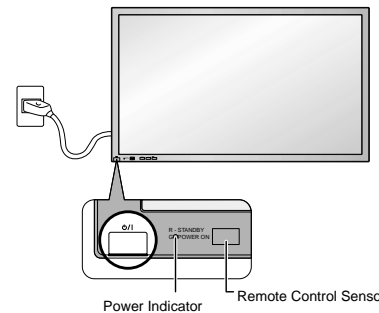
Command

| Command | Parameter | Control details |
|---------|-----------|--|
| PON | None | Power ON |
| POF | None | Power OFF |
| AUU | None | Volume increase |
| AUD | None | Volume decrease |
| AMT | None | Mute (toggle) |
| IIS | None | Input select (toggle) |
| VID | None | AV Mode |
| YP1 | None | Component / RGB mode (processed as a Y/Pa/Pb or RGB signals as set by this unit) |
| RG1 | None | PC mode |
| DAM | None | Screen mode select (toggle) |
| NORM | None | NORMAL (4:3) |
| ZOOM | None | ZOOM |
| FULL | None | FULL |
| JUST | None | JUST |
| SELF | None | AUTO |

17

Power ON/OFF and Input Signal Selection

Power ON/OFF



Connecting the plug to the Wall Outlet

Push the POWER switch on the Plasma Display Monitor to turn the set on POWER-ON

Power Indicator: Green

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

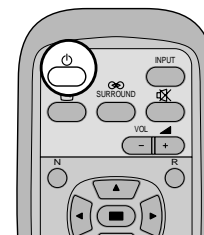
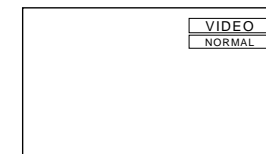
When the POWER is turned on for the first time, the LANGUAGE selection screen is displayed.

From the second time on, language selection can be done from the setup menu. (see page 21)

Select the desired language using the ▲ and ▼ keys and press the store (M) button.



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



Press the (P) button on the remote control to turn the Plasma Display Monitor off

Power Indicator: Red (standby)

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

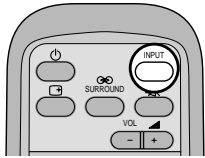
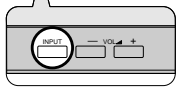
Power Indicator: Green

To turn the power for the Plasma Display Monitor off, press the (P) switch on the Plasma Display Monitor, when the Plasma Display Monitor is on or in standby mode.

18

Power ON/OFF and Input Signal Selection

Select the Input Signal



Press the INPUT button to select the input video signal desired from equipment such as a VCR which has been connected to the Plasma Display Monitor.

Input signals will change as follows:

For COMPONENT INPUT (see page 30)

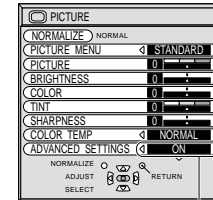
→ VIDEO → COMPONENT → PC

For RGB INPUT (see page 30)

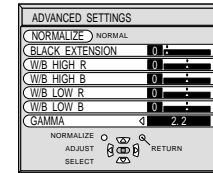
→ VIDEO → RGB → PC

On-Screen Menu Display from Remote Control

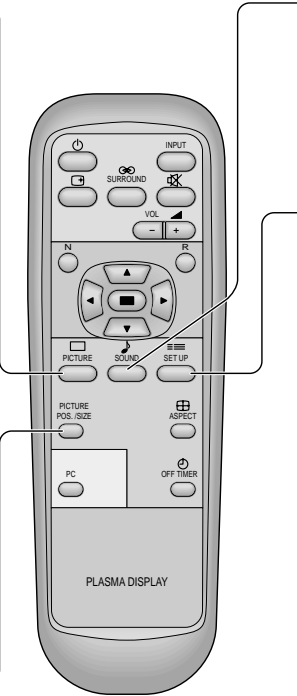
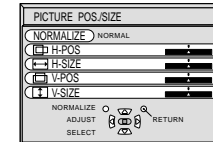
To PICTURE adjust menu (see page 28)



To ADVANCED SETTINGS menu (see page 29)

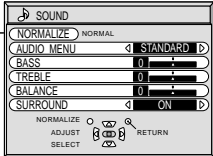


To PICTURE POS./SIZE adjust menu (see page 24)

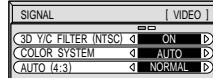


On-Screen Menu Display from Remote Control

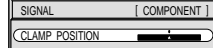
To SOUND adjust menu (see page 26)



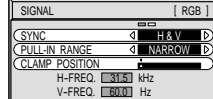
To SIGNAL screen for VIDEO (see page 31)



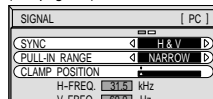
To SIGNAL screen for COMPONENT (see page 32)



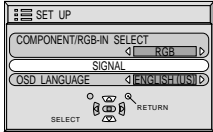
To SIGNAL screen for RGB (see page 32)



To SIGNAL screen for PC (see page 32)



To SET UP menu (see page 30)



① Press to select "SIGNAL" menu.

② Press to access "SIGNAL" setup menu.

Press the R button to return to "SET UP" menu.

Note:
"SIGNAL" setup menu displays different setting condition for each input signals. (See page 19)

Selecting the On-Screen Menu Language

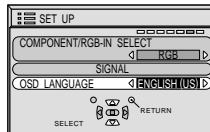
Press to display the SET UP menu.

Press to select OSD LANGUAGE.

Press to select your preferred language.

Selectable languages

- English (UK)
- Deutsch
- Français
- Italiano
- Español
- ENGLISH (US)
- 日本語 (Japanese)



21

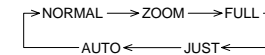
ASPECT Controls

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



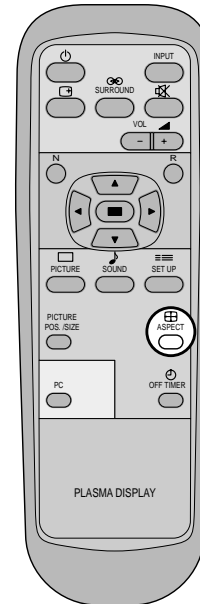
ASPECT button

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



Notes:

- (1) During RGB and PC input signal modes, the mode switches between "NORMAL" and "FULL" only.
- (2) For a 525p (480p) signal input during "COMPONENT" input signal mode, the mode switches between "ZOOM" and "FULL" only.
- (3) For a 1125i (1080i), 750p (720p) signal input during "COMPONENT" input signal mode, the mode is set to "FULL" mode, and switching is not possible.
For a 525i (480i), 625i (575i) signal input during "Component" input signal mode, "Auto" can not be selected.
- (4) The aspect mode is memorized separately for each input terminal (VIDEO, COMPONENT, RGB and PC).



22

ASPECT Controls

| Mode | Picture | Explanation |
|--------|---------|--|
| NORMAL | | NORMAL will display a 4:3 picture at its standard 4:3 size. |
| ZOOM | | ZOOM mode magnifies the central section of the picture. |
| FULL | | FULL will display the picture at its maximum size but with slight elongation. |
| JUST | | 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. |
| AUTO | | The display will automatically become enlarged (depending on the picture source), allowing you to view the picture at its maximum size. Note: 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 NORMAL. |

Notes:

- 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.
- 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 FULL mode.

23

Adjusting PICTURE POS./SIZE

Adjusting screen

- Press to select the screen mode to adjust (see page 23).
- Press to display the PICTURE POS./SIZE menu.

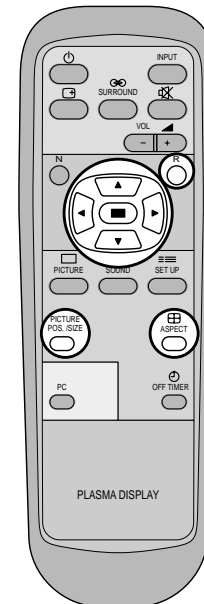
Press to select H-POS/H-SIZE/V-POS/V-SIZE/CLOCK PHASE.

During "VIDEO" and "COMPONENT" input signal modes.

During "RGB" and "PC" input signal modes.
- Press to adjust screen/position (see page 25).

R

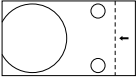
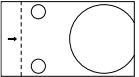
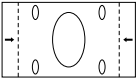
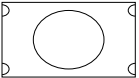
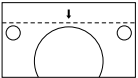
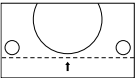
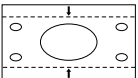
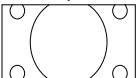
Press to exit adjust mode.

**Notes:**


- Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525i (480i), 625i (575i), 525p (480p), 1125i (1080i) and 750p (720p) each, and RGB/PC signals are memorized for each frequency.)
- 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.

24

Adjusting PICTURE POS./SIZE

| | | |
|-------------------------------------|---|--|
| H-POS | When the Position Left "◀" button is pressed  | When the Position Right "▶" button is pressed  |
| H-SIZE | When the Position Left "◀" button is pressed  | When the Position Right "▶" button is pressed  |
| V-POS | When the Position Left "◀" button is pressed  | When the Position Right "▶" button is pressed  |
| V-SIZE | When the Position Left "◀" button is pressed  | When the Position Right "▶" button is pressed  |
| 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 (/ Normalization)

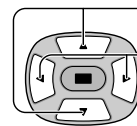
While the PICTURE POS./SIZE display is active, if either the N button on the remote control is pressed at any time or the  (ACTION button) is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.

25

SOUND Adjustment

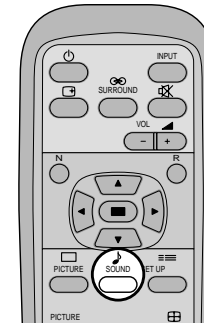
1 Press the SOUND  button to display the SOUND menu.

2 Select to adjust each item.



Press to select the desired adjustment menu.

Select the desired level by listening to the sound.



BASS

Adjusts low sounds

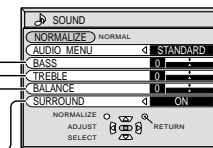
TREBLE

Adjusts high sounds

BALANCE

Adjusts left and right volumes

SURROUND (see next page)



STANDARD Emits the original sound.

AUTO Automatically controls proper volume level.

- To end adjustments




Press R button

Note:

Press the SURROUND button to directly turn the surround effect ON and OFF. (See page 27)

Helpful Hint (/ Normalization)

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 "NORMALIZE", then all adjustment values are returned to the factory settings.

Mute

Useful when answering the phone or receiving unexpected visitors.

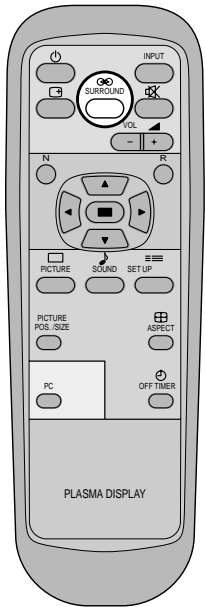


Press this button to mute the sound.

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

26

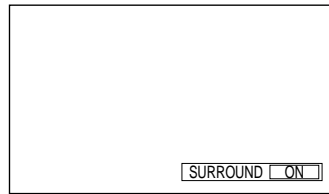
SURROUND Controls



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.

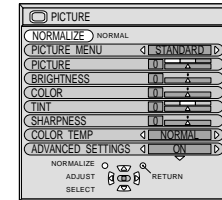
ON ↔ OFF

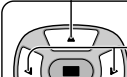



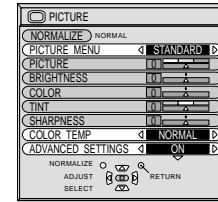
Note:
The surround settings are memorized separately for each SOUND mode (AUTO, STANDARD).

PICTURE Adjustments

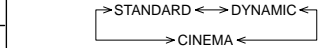
1  Press the PICTURE button on the Remote Control to display the PICTURE menu.



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.



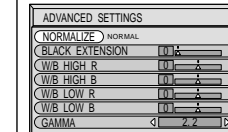
Press the left ◀ or right ▶ button to switch between modes.



- STANDARD**
STANDARD
For viewing in standard (evening lighting) environments.
This menu selects the normal levels of BRIGHTNESS and PICTURE.
- DYNAMIC**
DYNAMIC
For viewing in brighter environments.
This menu selects higher than normal levels of BRIGHTNESS and PICTURE.
- CINEMA**
CINEMA
Ideal for movies.
• Can be selected for VIDEO/COMPONENT.

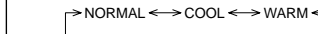
Note:
If you would like to change the picture and color of the selected PICTURE menu to something else, adjust using the items in the PICTURE menu. (See page 29)

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 page 29).




ADVANCED SETTINGS OFF Displays images with settings of the PICTURE menu.

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



Helpful Hint (/ Normalization)

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 "NORMALIZE", then all adjustment values are returned to the factory settings.

PICTURE Adjustments

| Item | Effect | Adjustments |
|------------------|----------------------|--|
| PICTURE | ◀ 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. |
| COLOR | ◀ Less ▶ More | Adjusts slightly to a lighter color. |
| TINT (NTSC only) | ◀ Reddish ▶ Greenish | Adjust for nice skin color. |
| SHARPNESS | ◀ Less ▶ More | Displays a sharp image. |

Notes:

- "COLOR", "TINT" and "SHARPNESS" settings cannot be adjusted for "RGB" and "PC" input signal modes.
- You can change the level of each function (CONTRAST, BRIGHTNESS, COLOR, TINT, SHARPNESS) for each PICTURE menu.
- The setting details for normal, dynamic and cinema respectively are memorized separately for each input mode (VIDEO, COMPONENT, RGB and PC).
- 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 gradation. |
| 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 ↔ 2.2 ↔ 2.5 |

Notes:

- 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.
 - Adjust the white balance of the dark sections using the "W/B LOW R" and "W/B LOW B" settings.
 - 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.
- The adjustment values are memorized separately for each input mode (VIDEO, COMPONENT, RGB and PC).
- The adjustment range values should be used as an adjustment reference.

Helpful Hint (/ Normalization)

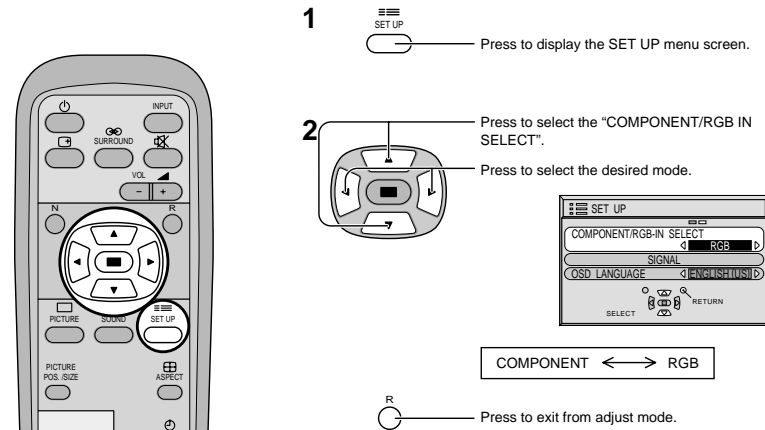
While the "ADVANCED SETTINGS" menu is displayed, if either the N button on the remote control is pressed at any time or the  (ACTION button) is pressed during "NORMALIZE", then all adjustment values are returned to the factory settings.


29

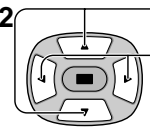

SET UP for Input Signals

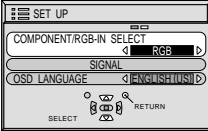
COMPONENT/RGB IN SELECT

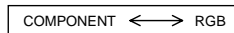
Select to match the signals from the source connected to the COMPONENT/RGB input terminals.
Y, PB, PR signals ↔ "COMPONENT"
R, G, B, HD, VD signals ↔ "RGB"




1  Press to display the SET UP menu screen.

2  Press to select the "COMPONENT/RGB IN SELECT".
 Press to select the desired mode.

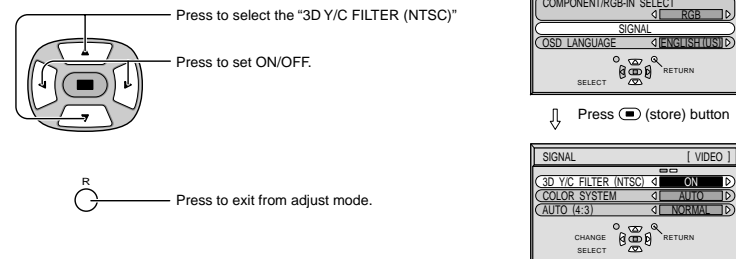


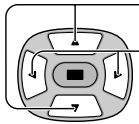



 Press to exit from adjust mode.


Adjusting unnatural video images (3D Y/C FILTER)



Select the SIGNAL from the "SET UP" menu during VIDEO (S-VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)

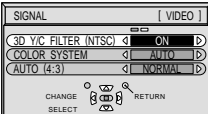



 Press to select the "3D Y/C FILTER (NTSC)".

 Press to set ON/OFF.



 Press  (store) button



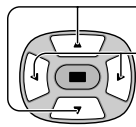
 Press to exit from adjust mode.

30

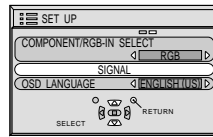
SET UP for Input Signals

COLOR SYSTEM / AUTO

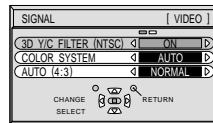
Select SIGNAL from the "SET UP" menu during VIDEO (S-VIDEO) input signal mode. ("SIGNAL [VIDEO]" menu is displayed.)



Press to select the "COLOR SYSTEM" or "AUTO".
Press to select each functions.



Press (store) button

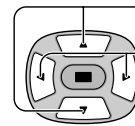


If the picture image becomes unstable:
With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

| Mode | Function |
|--------------|--|
| Color system | Set the color system to match the input signal. If set to "AUTO", the color system is determined automatically. →AUTO↔PAL↔SECAM↔M-NTSC↔NTSC← |
| AUTO (4:3) | Set to "NORMAL" to view 4:3 images in an unchanged format when AUTO is selected. If you would like to view 4:3 images in "Just" format, set to "JUST". |

SET UP for Input Signals

Select SIGNAL from the "SET UP" menu during RGB or PC input signal mode.



Press to select each item.
Press to adjust.

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

SYNC

Setting RGB sync signal setting:

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 (BNC) connector.
ON G: Uses a synchronized signal on the Video G signal, which is input from the G (BNC) 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 setting:

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 (BNC) connector.
ON G: Uses a synchronized signal on the Video G signal, which is input from the G (BNC) connector.

PULL IN RANGE

Sets the width for different frequencies.

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

CLAMP POSITION

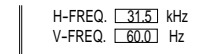
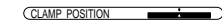
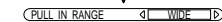
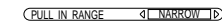
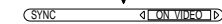
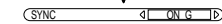
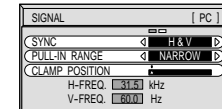
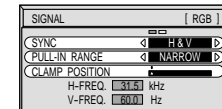
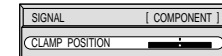
Adjusts the clamp position.

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



Troubleshooting

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

| Symptoms | | Checks |
|--------------------|------------------|---|
| Picture | Sound | |
| Interface | 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 pushing the power switch or stand-by button on the remote control.) |
| No Picture | Normal Sound | If a signal with a non-applicable color system format, or frequency is input, only the input terminal indication is displayed. |
| No Color | Normal Sound | Color controls set at minimum level. Color system (see page 28, 29) |

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

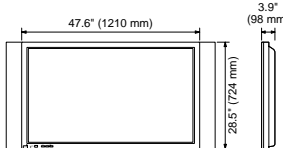
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Specifications

| | GD-V500PZU |
|-----------------------------|---|
| Power Source | 120 V AC, 50/60 Hz |
| Power Consumption | |
| Normal use | Max. Amps 5.5 A |
| Stand-by condition | 2.4 W |
| Power off condition | 0.7 W |
| Plasma Display panel | Drive method AC type 50-inch, 16:9 aspect ratio |
| Contrast Ratio | 3000:1 |
| Brightness Capability | (Panel only) 500 cd / m ² (As a set) 300 cd / m ² |
| Screen size | 1106 mm (W) × 622 mm (H) × 1269 mm (diagonal) No. of pixels 1,049,088 (1366 (W) × 768 (H)) [4,098 × 768 dots] |
| Operating condition | |
| Temperature | 34 °F - 104 °F (0 °C - 40 °C) |
| Humidity | 20 % - 80 % |
| Applicable signals | |
| Color System | NTSC, PAL, PAL60, SECAM, Modified NTSC |
| Scanning format | 525i (480i), 625i (575i), 525p (480p), 750p (720p), 1125i (1080i) |
| PC signals | XGA display VGA, SVGA SXGA, UXGA (compressed) Horizontal scanning frequency 15.5 - 110 kHz Vertical scanning frequency 48 - 120 Hz |
| Connection terminals | |
| AV | Video IN (BNC) 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 × 2) 0.5 Vrms (high impedance) |
| COMPONENT/RGB | Y/G (BNC) 1.0 Vp-p/composite (75-ohm) 0.7 Vp-p/non-composite (75-ohm) P _B /B (BNC) 0.7 Vp-p (75-ohm) P _R /R (BNC) 0.7 Vp-p (75-ohm) HD (BNC) 1.0 - 5.0 Vp-p (high impedance) VD (BNC) 1.0 - 5.0 Vp-p (high impedance) AUDIO IN (RCA PIN JACK × 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-SUB9PIN) RS-232C COMPATIBLE |
| SPEAKERS (6 Ω) | 16W [8 W + 8 W] (10 % THD) For TS-C5000SPG only |

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Specifications

| GD-V500PZU | |
|-------------------------------|--|
| Accessories Supplied | |
| Remote Control Transmitter | EUR646526 |
| Batteries | 2 × AA Size |
| Optional Supplied | |
| Speakers | TS-C500SPG |
| Stand Unit | TS-C50P1G |
| Wall Mounting Unit | TS-C50P6G |
| Wall Mounting Unit (angled) | TS-C50P2G |
| Ceiling Suspension Unit | TS-C50P3G |
| Dimensions (W × D × H) | 47.6" (1210mm) × 28.5" (724 mm) × 3.9" (98mm)  |
| Weight (Mass) | approx. 99.2 lbs (main unit only) approx. 109.3 lbs (with speakers) |

Note:
Design and specifications are subject to change without notice. Weight and dimensions shown are approximate.

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