

# PlasmaSync Plasma Monitor (Enhanced split screen Model)

PlasmaSync 42XM4
PX-42XM4G
PlasmaSync 50XM5
PX-50XM5G
PlasmaSync 61XM4
PX-61XM4G

**User's Manual** 

Benutzerhandbuch

Manuel d'utilisation

Manual del Usuario

Manuale dell'utente

Руководство пользователя

**Bruksanvisning** 

Kullanım Kılavuzu

Εγχειοίδιο Χοήσης

# **User's Manual**

(Enhanced split screen Model)

# **ENGLISH**

# **Important Information**

### **Precautions**

Please read this manual carefully before using your plasma monitor and keep the manual handy for future reference.



### CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside of this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included.

Therefore, it should be read carefully in order to avoid any problems.

### **WARNING**

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS, UNLESS THE PRONGS CAN BE FULLY INSERTED. REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

### **Warnings and Safety Precaution**

This plasma monitor is designed and manufactured to provide long, trouble-free service. No maintenance other than cleaning is required. Please see the section "Plasma monitor cleaning procedure".

The plasma display panel consists of fine picture elements (cells) with more than 99.99 percent active cells. There may be some cells that do not produce light or remain lit.

For operating safety and to avoid damage to the unit, read carefully and observe the following instructions.

To avoid shock and fire hazards:

 Provide adequate space for ventilation to avoid internal heat buildup. Do not cover rear vents or install the unit in a closed cabinet or shelves.

If you install the unit in an enclosure, make sure there is adequate space at the top of the unit to allow hot air to rise and escape. If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location, and wait for 60 minutes to cool the monitor. If the problem persists, contact your dealer for service.

- Do not use this unit's polarized plug with extension cords or outlets unless the prongs can be completely inserted.
- 3. Do not expose the unit to water or moisture.
- Avoid damage to the power cord, and do not attempt to modify the power cord.
- Unplug the power cord during electrical storms or if the unit will not be used over a long period.
- Do not open the cabinet which has potentially dangerous high voltage components inside. If the unit is damaged in this way the warranty will be void. Moreover, there is a serious risk of electric shock.
- 7. Do not attempt to service or repair the unit. The manufacturer is not liable for any bodily harm or damage caused if unqualified persons attempt service or open the back cover. Refer all service to authorized Service Centers.
- This equipment shall be connected to a MAIN outlet with a protective earth-ground connection.
- The outlet shall be installed near the equipment and shall be easily accessible.

### To avoid damage and prolong operating life:

- Use only with 100-240V 50/60Hz AC power supply. Continued operation at line voltages greater than 100-240 Volts AC will shorten the life of the unit, and might even cause a fire hazard.
- 2. Handle the unit carefully when installing it and do not drop.
- 3. Set the unit away from heat, excessive dust, and direct sunlight.
- Protect the inside of the unit from liquids and small metal objects. In case of accident, unplug the power cord and have it serviced by an authorized Service Center.
- Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
- For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
- As is the case with any phosphor-based display (like a CRT monitor, for example) light output will gradually decrease over the life of a Plasma Display Panel.
- 8. To avoid sulfurization it is strongly recommended not to place the unit in a dressing room in a public bath or hot spring bath.
- Do not use in a moving vehicle, as the unit could drop or topple over and cause injuries.
- 10. Do not place the unit on its side, upside-down or with the screen facing up or down, to avoid combustion or electric shock.

### Plasma monitor cleaning procedure:

- Use a soft dry cloth to clean the front panel and bezel area. Never use solvents such as alcohol or thinner to clean these surfaces.
- Clean plasma ventilation areas with a vacuum cleaner with a soft brush nozzle attachment.
- To ensure proper ventilation, cleaning of the ventilation areas must be carried out monthly. More frequent cleaning may be necessary depending on the environment in which the plasma monitor is installed.

### Recommendations to avoid or minimize image retention:

Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to image retention under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in image retention if proper precautions are not taken. To protect your investment in this plasma monitor, please adhere to the following guidelines and recommendations for minimizing the occurrence of image retention:

- \* Always enable and use your computer's screen saver function during use with a computer input source.
- \* Display a moving image whenever possible.
- \* Change the position of the menu display from time to time.
- \* Always power down the monitor when you are finished using it. If the plasma monitor is in long term use or continuous operation take the following measures to reduce the likelihood of image retention:
- \* Lower the Brightness and Contrast levels as much as possible without impairing image readability.
- Display an image with many colors and color gradations (i.e. photographic or photo-realistic images).
- \* Create image content with minimal contrast between light and dark areas, for example white characters on black backgrounds. Use complementary or pastel color whenever possible.
- \* Avoid displaying images with few colors and distinct, sharply defined borders between colors.

### Plasma monitor driving sound

The panel of the Plasma monitor is composed of extremely fine pixels and these pixels emit light according to received video signals. This principle may cause you to hear a buzz or electrical hum coming from the Plasma monitor. Also note that the rotation speed of the cooling fan motor increases when the ambient temperature of the Plasma monitor becomes high. You may hear the sound of the motor at that time.

### Note:

The following items are not coverd by the warranty.

- · Image retention
- Panel generated sound, examples: Fan motor noise, and electrical circuit humming /glass panel buzzing.

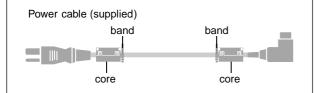
Contact your dealer for other recommended procedures that will best suit your particular application needs.

### NOTE:

When you connect a computer to this monitor, use an RGB cable including the ferrite core on both ends of the cable. And regarding power cable, attach the supplied ferrite cores. If you do not do this, this monitor will not conform to mandatory CE or C-Tick standards.

Set the ferrite cores on both ends of the power cable (supplied).

Use the band to fasten the ferrite core (supplied) to the power cable.



# Disposing of your used product

EU-wide legislation as implemented in each Member State requires that used electrical and electronic products carrying the mark (left) must be disposed of separately from normal household waste. This includes plasma monitors and their electrical accessories. When you dispose of such products, please follow the guidance of your local authority and/or ask the shop where you purchased the product.

After collecting the used products, they are reused and recycled in a proper way. This effort will help us reduce the wastes as well as the negative impact to the human health and the environment at the minimum level.

The mark on the electrical and electronic products only applies to the current European Union Member States.

### **A** CAUTION

When disposing of used batteries, please comply with governmental regulations or environmental public instruction's rules that apply in your country/area.

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# Installation

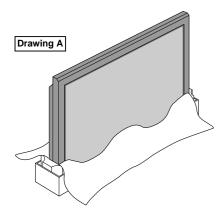
You can attach your optional mounts or stand to the plasma monitor in one of the following two ways:

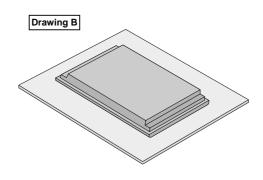
- \* While it is upright. (See Drawing A)
- \* As it is laid down with the screen face down (See Drawing B). Lay the protective sheet, which was wrapped around the monitor when it was packaged, beneath the screen surface so as not to scratch the screen face.
- \* Do not touch or hold the screen face when carrying the unit.
  - This device cannot be installed on its own. Be sure to use a stand or original mounting unit. (Wall mount unit, Stand, etc.)
  - For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.

Failure to follow correct mounting procedures could result in damage to the equipment or injury to the installer.

Product warranty does not cover damage caused by improper installation.

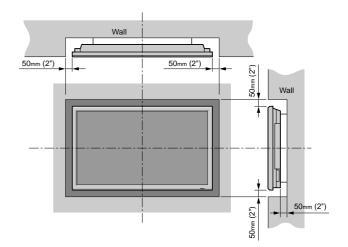
\* Use only a mounting kit or stand recommended by the manufacturer and listed as an accessory.





# Ventilation Requirements for enclosure mounting

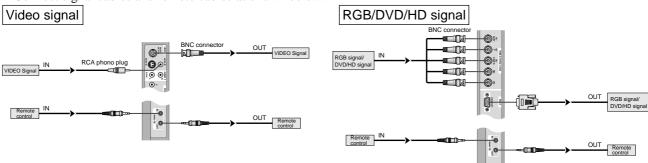
To allow heat to disperse, leave space between surrounding objects as shown on the diagram when installing.



### Creating a video wall

With built-in matrix display capability, you can create a  $(2 \times 2, 3 \times 3, 4 \times 4, 5 \times 5)$  video wall.

· Connect signal cables and remote cables as shown below.



### Note:

- 1. The VIDEO1 and RGB1 terminals can be used for either INPUT or OUTPUT.

  When LOOP OUT is ON, do not connect an OUTPUT signal from another unit as it may damage the other unit due to an extraordinary load.
- 2. LOOP OUT can not be turned ON while signals are input to the RGB1 terminal.
- 3. LOOP OUT can be turned ON while signals are input to the RGB1 terminal if the POWER is switched ON.

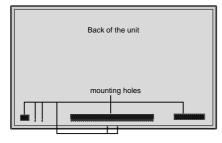
### Information

- To loop signals out to another plasma display, set the LOOP OUT to ON.
- To create a video wall, set the VIDEO WALL menu items properly.
- To connect monitors, please use a 1~2m (3.3~6.6 feet) BNC cable (any commercially available cable).
- If the image quality is poor, do not use the monitor's out terminal. Use a distribution amplifier (any commercially available distribution amplifier) to connect the split signals to the respective monitor INPUT terminals.
- Being used as a video wall function, maximaly 4-screen is rough-standard with lower than 1024×768, 60Hz signal.
- A distribution amplifier is particularly recommended when creating a 3×3 (or greater) video wall.
- When looping from plasma to plasma, a 1~2m (3.3~6.6 feet) 15 pin male D-Sub 5BNC conversion cable is required.

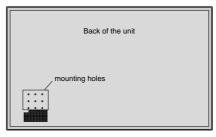
### **Cable Management**

Using the cable clamps provided with the plasma display; Bundle the signal and audio cables at the back of the unit to connect to the display.

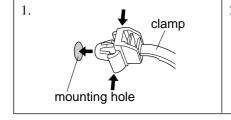


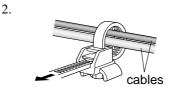


50/61 inch

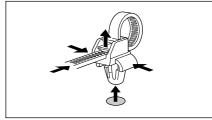


### To attach





To detach



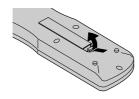
### Caution when placing the plasma monitor in portrait mode

- Use the optional unit. Contact your store of purchase when installing.
- Rotate 90° clockwise as seen from the front when installing.
- After installing, make sure the NEC logo is located at the left hand side of the screen when facing the plasma from the front.
- Be sure to set "OSM ANGLE" to "V" when using.
- \* Failure to heed the above cautions may lead to malfunction.

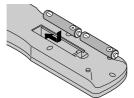
# **Using the remote control**Battery Installation and Replacement

Insert the 2 "AAA" batteries, making sure to set them in with the proper polarity.

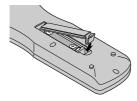
1. Press and open the cover.



2. Align the batteries according to the (+) and (-) indication inside the case.



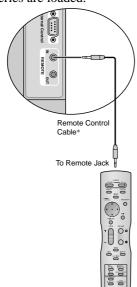
3.Replace the cover.

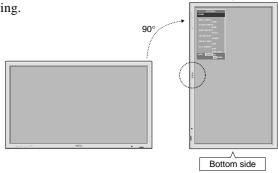


### Using the wired remote control mode

Connect the remote cable\* to the remote control's remote jack and the "REMOTE IN" terminal on the monitor.

When the cable is connected, the mode automatically switches to wired remote control. When the wired remote control mode is used, the remote control can be operated even if no batteries are loaded.

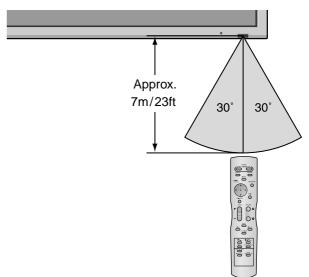




Top side

### **Operating Range**

- \* Use the remote control within a distance of about 7 m/ 23ft. from the front of the monitor's remote control sensor and at horizontal and vertical angles of up to approximately 30°
- \* The remote control operation may not function if the monitor's remote control sensor is exposed to direct sunlight or strong artificial light, or if there is an obstacle between the sensor and the remote control.

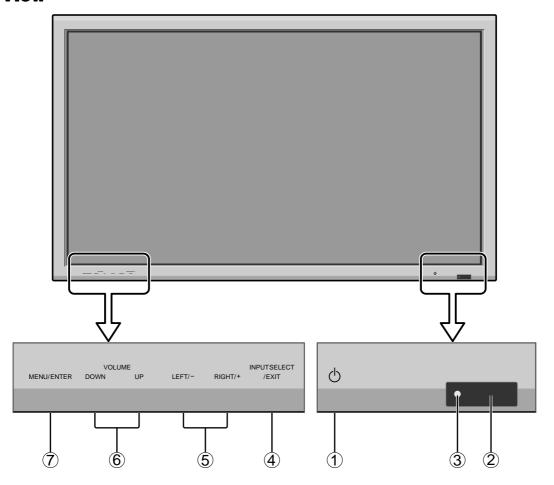


### Handling the remote control

- Do not drop or mishandle the remote control.
- Do not get the remote control wet. If the remote control gets wet, wipe it dry immediately.
- · Avoid heat and humidity.
- When not using the remote control for a long period, remove the batteries.
- Do not use new and old batteries together, or use different types together.
- Do not take apart the batteries, heat them, or throw them into a fire.
- When using the remote control in the wireless condition, be sure to unplug the remote cable from the REMOTE IN terminal on the monitor.

# **Part Names and Function**

### **Front View**



- 1 **Power**Turns the monitor's power on and off.
- ② Remote sensor window Receives the signals from the remote control.
- ③ POWER/STANDBY indicator
  When the power is on ...... Lights green.
  When the power is in the standby mode ... Lights red.
- (4) INPUT SELECT / EXIT

Switches the input.
Functions as the EXIT buttons in the On-Screen Menu (OSM) mode.

### (5) LEFT/- and RIGHT/+

Enlarges or reduces the image. Functions as the CURSOR ( $\blacktriangleleft/\blacktriangleright$ ) buttons in the On-Screen Menu (OSM) mode.

### **6 VOLUME DOWN and UP**

Adjusts the volume. Functions as the CURSOR (▲/▼) buttons in the On-Screen Menu (OSM) mode.

### 7 MENU/ENTER

Sets the On-Screen Menu (OSM) mode and displays the main menu.

### **WARNING**

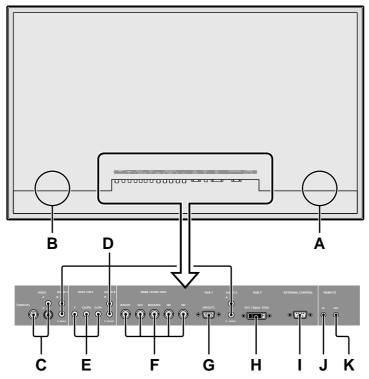
The Power on/off switch does not completely disconnect power from the display.

**Note:** This plasma monitor has the capasity to display images when connected to European DVD players with a SCART output signal, which is RGB with composite sync.

Your dealer can supply a special SCART cable, which will enable you to use the RGB with composite sync signal. To obtain the special cable as well as for further information, please contact your dealer.

### **Rear View/ Terminal Board**

42 inch



### A AC IN

Connect the included power cord here.

### **B** EXT SPEAKER L and R

Connect speakers (optional) here. Maintain the correct polarity. Connect the  $\bigoplus$  (positive) speaker wire to the  $\bigoplus$  EXT SPEAKER terminal and the  $\bigoplus$  (negative) speaker wire to the  $\bigoplus$  EXT SPEAKER terminal on both LEFT and RIGHT channels.

Please refer to your speaker's owner's manual.

### C VIDEO1, 2, 3 (BNC, RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here. VIDEO1 can be used for Input or Output.

### D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Set which video image corresponds to the audio input from the audio menu screen.

### E DVD1/HD1

Connect DVD's, High Definition or Laser Discs, etc. here.

### F RGB2/ DVD2/ HD2

RGB2: You can connect an analog RGB signal

and the syncronization signal.

DVD2/ HD2: You can connect DVDs, High

Definition sources, Laser Discs, etc.

here.

This input can be set for use with an

RGB or component source.

### G RGB1 (mini D-Sub 15pin)

Connect an analog RGB signal from a computer, etc. here. This input can be used for Input or Output.

### H RGB3 (DVI 24pin)

Connect a digital signal (TMDS) from a source with a DVI output.

### I EXTERNAL CONTROL

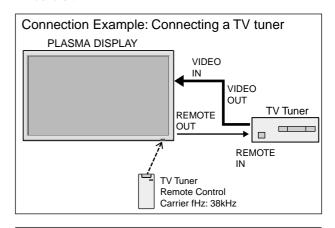
This terminal is used when operating and controlling the monitor externally with a control system (by RS-232C).

### J REMOTE IN (DC +5V)

Connect the remote cable\* to the remote control's remote jack to obtain wired remote control.

### K REMOTE OUT (C-MOS DC +5V)

Connect the remote cable\* to the REMOTE IN jack of the other display monitor to obtain wired remote control.



\* The 1/8 Stereo Mini cable must be purchased separately.

### Information

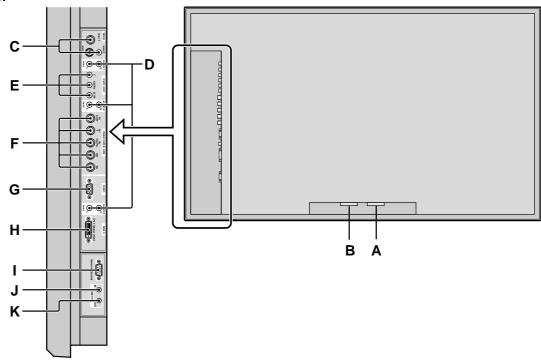
- For Y/CB/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides three ways to connect:
- · SCART1: Connect R/G/B to the DVD2 terminals and composite sync. to the HD terminal.
- · SCART2: Connect R/G/B to the DVD2 terminals and composite sync. to the VIDEO1 terminal.
- · SCART3: Connect R/G/B + composite sync. to the RGB1 terminal.

Downloaded From ringut can be set for usely with an RGB/PC3.

En-9

### **Rear View/ Terminal Board**

51/61 inch



### A AC IN

Connect the included power cord here.

### **B** EXT SPEAKER L and R

Connect speakers (optional) here. Maintain the correct polarity. Connect the  $\bigoplus$  (positive) speaker wire to the  $\bigoplus$  EXT SPEAKER terminal and the  $\bigoplus$  (negative) speaker wire to the  $\bigoplus$  EXT SPEAKER terminal on both LEFT and RIGHT channels.

Please refer to your speaker's owner's manual.

### C VIDEO1, 2, 3 (BNC, RCA, S-Video)

Connect VCR's, DVD's or Video Cameras, etc. here. VIDEO1 can be used for Input or Output.

### D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Set which video image corresponds to the audio input from the audio menu screen.

### E DVD1/HD1

Connect DVD's, High Definition or Laser Discs, etc. here.

### F RGB2/ DVD2/ HD2

RGB2: You can connect an analog RGB signal

and the syncronization signal.

DVD2/ HD2: You can connect DVDs, High

Definition sources, Laser Discs, etc.

here.

This input can be set for use with an RGB or component source.

### G RGB1 (mini D-Sub 15pin)

Connect an analog RGB signal from a computer, etc. here. This input can be used for Input or Output.

### H RGB3 (DVI 24pin)

Connect a digital signal (TMDS) from a source with a DVI output.

### I EXTERNAL CONTROL

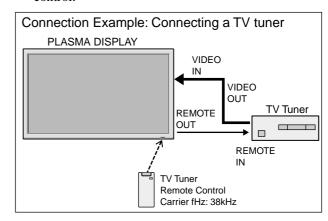
This terminal is used when operating and controlling the monitor externally with a control system (by RS-232C).

### J REMOTE IN (DC +5V)

Connect the remote cable\* to the remote control's remote jack to obtain wired remote control.

### K REMOTE OUT (C-MOS DC +5V)

Connect the remote cable\* to the REMOTE IN jack of the other display monitor to obtain wired remote control.



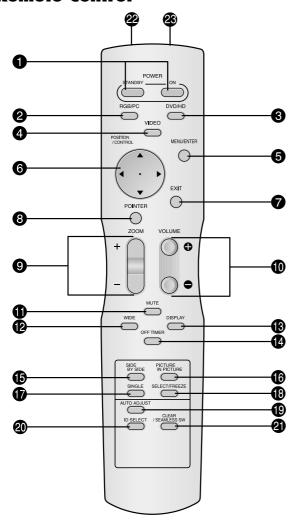
\* The 1/8 Stereo Mini cable must be purchased separately.

### Information

- For Y/CB/Cr, connect to the DVD1 or DVD2 terminals.
- For SCART, this unit provides three ways to connect:
  - · SCART1: Connect R/G/B to the DVD2 terminals and composite sync. to the HD terminal.
  - · SCART2: Connect R/G/B to the DVD2 terminals and composite sync. to the VIDEO1 terminal.
  - · SCART3: Connect R/G/B + composite sync. to the RGB1 terminal.

Downloaded From The Lands Set for usely ith an RGB/PC3.

### **Remote Control**



### **1** POWER ON/STANDBY

Switches the power on/standby. (This does not operate when the POWER/STANDBY indicator of the plasma is off.)

### 2 RGB/PC

Press this button to select RGB/PC as the source. RGB/PC can also be selected using the INPUT SELECT button on the monitor.

### 3 DVD/HD

Press this button to select DVD/HD as the source. DVD/HD can also be selected using the INPUT SELECT button on the monitor.

### 4 VIDEO

Press this button to select VIDEO as the source.

$$\longrightarrow \mathsf{VIDEO1} \to \mathsf{VIDEO2} \to \mathsf{VIDEO3} \to \mathsf{$$

VIDEO can also be selected using the INPUT SELECT button on the monitor.

### **6** MENU/ENTER

Press this button to access the OSM controls. Press this button during the display of the main menu to go to the sub menu.

### **6** CURSOR (**△** / **▼** / **⊲** / **▶**)

Use these buttons to select items or settings and to adjust settings or switch the display patterns.

### **2** EXIT

Press this button to exit the OSM controls in the main menu. Press this button during the display of the sub menu to return to the previous menu.

### **8** POINTER

Press this button to display the pointer.

### **9 ZOOM** (+ /-)

Enlarges or reduces the image.

### **10 VOLUME** (+ /-)

Adjusts the audio volume.

### **1** MUTE

Mutes the audio.

### **12** WIDE

Automatically detects the signal and sets the aspect ratio. Wide button is not active for all signals.

### **B** DISPLAY

Displays the source settings on the screen.

### **OFF TIMER**

Activates the off timer for the unit.

### **⑤** SIDE BY SIDE

Press this button to show a couple of pictures in the side-by-side mode.

### **6** PICTURE IN PICTURE

Press this button to show a couple of pictures in the picture-in-picture mode.

### **1** SINGLE

Cancels the split screen mode.

### **18** SELECT/FREEZE

Press this button to select the active picture in a split screen mode.

When the PIC FREEZE function is operating, this button can be used to display still images on the sub screen.

### AUTO ADJUST

Press this button to adjust Fine Picture, Picture ADJ, Position, and Contrast automatically. Press the button in video mode and the Auto Adjust switches to ZOOM mode automatically when a letter box image is displayed.

### 20 ID SELECT

Set the ID number in the remote control. The remote control can then be used only for a display with the same ID number. When several displays are used together they can be controlled individually.

### **②** CLEAR/SEAMLESS SW

Clears the number set by the ID SELECT button. When the SEAMLESS SW function is operating, this button can be used to switch the input source quickly.

### **2** Remote control signal transmitter

Transmits the remote control signals.

### Remote Jack

Insert the plug of the remote cable (The 1/8 Stereo Mini cable) here when using the supplied remote control in the wired condition.

# **Basic Operations**

### **POWER**

### To turn the unit ON and OFF:

- 1. Plug the power cord into an active AC power outlet.
- 2. Press the Power button (on the unit).

The monitor's POWER/STANDBY indicator turns red and the standby mode is set.

3. Press the POWER ON button (on the remote control) to turn on the unit.

The monitor's POWER/STANDBY indicator will light up (green) when the unit is on.

4. Press the POWER STANDBY button (on the remote control) or the Power button (on the unit) to turn off the unit.

The monitor's POWER/STANDBY indicator turns red and the standby mode is set (only when turning off the unit with the remote control).

### **VOLUME**

### To adjust the sound volume:

- 1. Press and hold the VOLUME 
   button (on the remote control or the unit) to increase to the desired level.
- 2. Press and hold the VOLUME  $\bigcirc$  button (on the remote control or the unit) to decrease to the desired level.

### **MUTE**

### To mute the audio:

Press the MUTE button on the remote control to mute the audio; press again to restore.

### **DISPLAY**

### To check the settings:

- 1. The screen changes each time the DISPLAY button is pressed.
- 2. If the button is not pressed for approximately three seconds, the menu turns off.

### **DIGITAL ZOOM**

Digital zoom specifies the picture position and enlarges the picture.

1. (Be sure ZOOM NAV is off.)

Press the POINTER button to display the pointer. ( )

### To change the size of the picture:

Press the ZOOM+ button and enlarge the picture.

The pointer will change to resemble a magnifying glass. (  $\mathbb{Q}$  )

A press of the ZOOM- button will reduce the picture and return it to its original size.

### To change the picture position:

Select the position with the  $\blacktriangle \blacktriangledown \blacktriangleleft \blacktriangleright$  buttons.

2. Press the POINTER button to delete the pointer.

### **AUTO ADJUST**

# To adjust the size or quality of the picture automatically:

Press the AUTO ADJUST button.

### Information

### ■ AUTO ADJUST ON setting

When RGB (still picture) input is selected:

Fine Picture, Picture ADJ, Position, and Contrast will be adjusted automatically.

When RGB (motion picture), VIDEO, or Y/Pb/Pr (component) input is selected:

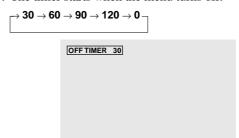
The screen size switches to ZOOM mode automatically when a letter box image is displayed.

### **OFF TIMER**

### To set the off timer:

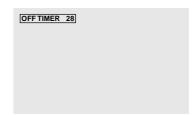
The off timer can be set to turn the power off after 30, 60, 90 or 120 minutes.

- Press the OFF TIMER button to start the timer at 30 minutes.
- 2. Press the OFF TIMER button to the desired time.
- 3. The timer starts when the menu turns off.



### To check the remaining time:

- 1. Once the off timer has been set, press the OFF TIMER button once.
- 2. The remaining time is displayed, then turns off after a few seconds.
- 3. When five minutes remain the remaining time appears until it reaches zero.



### To cancel the off timer:

- 1. Press the OFF TIMER button twice in a row.
- 2. The off timer is canceled.



### Note:

After the power is turned off with the off timer ...

A slight current is still supplied to the monitor. When you are leaving the room or do not plan to use the system for a long period of time, turn off the power to the monitor.

# **WIDE Operations**

### Wide Screen Operation (manual)

With this function, you can select one of six screen sizes.

### When viewing videos or digital video discs

- 1. Press the WIDE button on the remote control.
- 2. Within 3 seconds ...

Press the WIDE button again.

The screen size switches as follows:

 $\stackrel{\textstyle \rightarrow}{\textstyle \mathsf{NORMAL}} \rightarrow \mathsf{FULL} \rightarrow \mathsf{STADIUM} \rightarrow \mathsf{ZOOM} \rightarrow 2.35:1 \rightarrow 14:9$ 

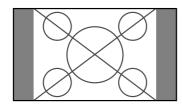
When a 720P or 1080I signal is input:

 $\text{FULL} \leftrightarrow \text{2.35:1}$ 

When displaying enhanced split screen:

 $NORMAL \leftrightarrow FULL$ 

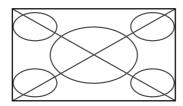
NORMAL size screen (4:3)



The normal size screen is displayed.

\* The picture has the same size as video pictures with a 4:3 aspect ratio.

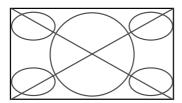
### FULL size screen



The image is expanded in the horizontal direction.

\* Images compressed in the horizontal direction ("squeezed images") are expanded in the horizontal direction and displayed on the entire screen with correct linearity. (Normal images are expanded in the horizontal direction.)

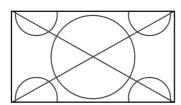
### STADIUM size screen



The picture is expanded in the horizontal and vertical directions at different ratios.

\* Use this for watching normal video programs (4:3) with a wide screen.

### ZOOM size screen

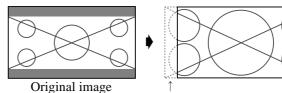


The picture is expanded in the horizontal and vertical

Downloaded rection maintaining the original proportions.

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### 2.35:1 size screen

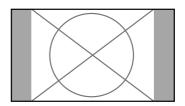


Information is lost on both sides.

The squeezed film image is expanded to fulfill the entire screen at a ratio of 2.35:1. Black bands do not appear at the top and bottom but information is lost on the left and right margins.

- This feature is available when the input signal is video, component (480I, 480P, 576I, 576P, 720P, 1080I) or RGB (525P or 625P signal from a scan converter).
- \* If black bands appear on the top and bottom in the full size screen, select the 2.35:1 size screen to fill the screen and avoid image retention.

### 14:9 size screen



The image is displayed at a 14:9 aspect ratio.

\* This feature is available when the input signal is video, component (480I, 480P, 576I, 576P) or RGB (525P or 625P signal from a scan converter).

### Note:

Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

# Wide Screen Operation with Computer Signals

Switch to the wide screen mode to expand the 4 : 3 image to fill the entire screen.

- 1. Press the WIDE button on the remote control.
- 2. Within 3 seconds ...

Press the WIDE button again.

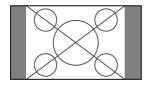
The screen size switches as follows:

ightarrow NORMAL ightarrow FULL ightarrow ZOOM -

When displaying enhanced split screen:

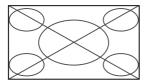
 $NORMAL \leftrightarrow FULL$ 

NORMAL size screen (4:3 or SXGA 5:4)



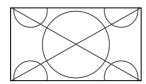
The picture has the same size as the normal computer image.

FULL size screen



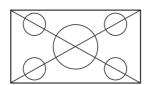
The image is expanded in the horizontal direction.

ZOOM size screen



When wide signals are input.

FULL size screen



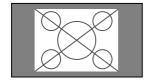
### When "PICTURE SIZE" is set to "OFF"

\* This cannot be set in some models. "TRUE" size will not be displayed in such cases.

The screen size switches as follows:

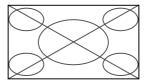
ightarrow TRUE ightarrow FULL ightarrow ZOOM -

TRUE size screen (VGA, SVGA 4:3)



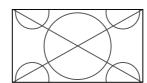
The image is true resolution.

FULL size screen



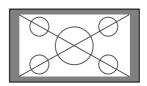
The image is expanded in the horizontal and vertical direction.

ZOOM size screen



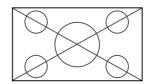
When wide signals are input.

**TRUE** 



The image is true resolution.

**FULL** 



### Information

### ■ Supported resolution

See page En-39 for details on the display output of the various VESA signal standards supported by the monitor.

■ "PICTURE SIZE" setting

When the setting of "PICTURE SIZE" is OFF, the size of RGB-input pictures will be TRUE in place of NORMAI

■ When 852 (848) dot  $\times$  480 line wide VGA\* signals with a vertical frequency of 60 Hz and horizontal frequency of 31.7 (31.0) kHz are input

Select an appropriate setting for RGB SELECT mode referring to the "Table of Signals Supported" on page En-39.

\* "VGA", "SVGA" and "SXGA" are registered trademarks of IBM, Inc. of the United States.

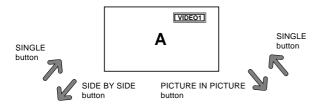
Note:

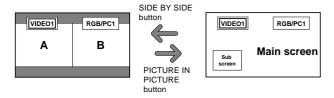
Do not allow 4:3 content to be displayed for extended periods of time without using gray bars. This can cause image retention.

# **SPLIT SCREEN Operations**

# Showing a couple of pictures on the screen at the same time

- \* There may be some RGB-input signals that may not be displayed as not all signals are supported.
- 1. Press the button to select a screen mode from among single mode, side-by-side, and picture-in-picture.





### Note:

Picture A and B on the above screen are not always of the same height.

### Information

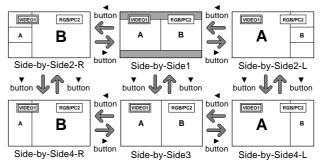
Split screen operations may not function depending on the combination of input signals. In the table below, "O" means Yes, "X" means No.

	Pictures displayed on the right/main screen (Select1)											
				VIDE03	DVD/HD1	DVD/HD2	SCART1	SCART2	SCART3	RGB/PC1	RGB/PC2	RGB/PC3
Pictures	VIDE01	×	×	×	0	0	×	×	×	0	0	0
displayed on	VIDE02	×	×	×	0	0	×	×	×	0	0	0
the left/sub	VIDE03	×	×	×	0	0	×	×	×	0	0	0
screen	DVD/HD1	0	0	0	×	0	0	0	0	0	0	0
(Select2)	DVD/HD2	0	0	0	0	×	×	×	×	0	×	0
	SCART1	×	×	×	0	×	×	×	×	0	×	0
	SCART2	×	×	×	0	×	×	×	×	0	×	0
	SCART3	×	×	×	0	0	×	×	×	×	0	0
	RGB/PC1	0	0	0	0	0	0	0	×	×	0	0
	RGB/PC2	0	0	0	0	×	×	×	0	0	×	0
	RGB/PC3	0	0	0	0	0	0	0	0	0	0	×

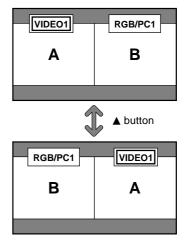
■ Split screen operations may not function depending on the frequency of the RGB signals.

### Operations in the Side-by-side mode

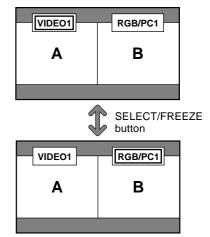
To change the picture size, press the cursor  $\blacktriangleleft \triangleright$  or  $\blacktriangledown$  button.



To swap the picture on the right and the left, press the cursor ▲ button.

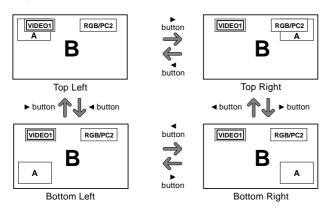


To make the desired picture active, press the SELECT/FREEZE button.

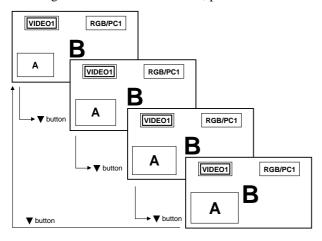


### Operations in the Picture-in-picture mode

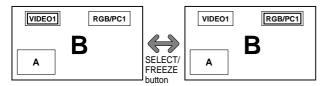
To move the position of the sub screen, press the cursor ◀ or ▶ button.



To change the size of the sub screen, press the  $\nabla$  button.



To make the desired picture active, press the SELECT/FREEZE button.



### Selecting the input signals to be displayed

- 1. Press the SELECT/FREEZE button to make the desired picture active.
- 2. Press the RGB/PC, VIDEO, or DVD/HD button. Each press of the button changes the selection of the input signal.

The INPUT SELECT button on the monitor can also be used to change the selection.

### Zooming in on a specific input

- 1. Press the SELECT/FREEZE button to make the desired picture active.
- 2. Use the POINTER button and the ZOOM+/- button to enlage the picture.

For details, see "DIGITAL ZOOM" on page En-12.

### Adjusting the OSM controls

- 1. Press the SELECT/FREEZE button to make the desired picture active.
- 2. Press the MENU/ENTER button to display the MAIN MENU.
- 3. Adjust the setting to your preference. For details, see "OSM (On Screen Menu) Controls" on page En-17.

### Note:

During enhanced split screen mode, some functions of OSM controls are not available.

# OSM(On Screen Menu) Controls

### **Menu Operations**

The OSM window is displayed with respect to the screen as shown on the diagram.

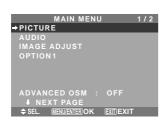
\* Depending on the screen's mode, the OSM may be displayed differently.

In the explanation, the OSM section is shown close up.



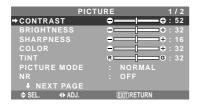
The following describes how to use the menus and the selected items.

1. Press the MENU/ENTER button on the remote control to display the MAIN MENU.





- 2. Press the cursor buttons ▲ ▼ on the remote control to highlight the menu you wish to enter.
- 3. Press the MENU/ENTER button on the remote control to select a sub menu or item.



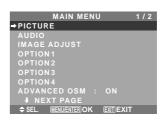
- 4. Adjust the level or change the setting of the selected item by using the cursor buttons ◀ ▶ on the remote control.
- 5. The adjustments or settings are then stored in memory. The change is stored until another change is made.
- 6. Repeat steps 2-5 to adjust an additional item, or press the EXIT button on the remote control to return to the main menu.
  - \* When adjusting using the bar at the bottom of the screen, press the ◀ or ▶ button within 5 seconds. If not, the current setting is stored and the previous screen appears.

**Note:** The main menu disappears by pressing the EXIT button.

### Information

### ■ Advanced menu mode

When "ADVANCED OSM" is set to "ON" in the main menu (1/2), full menu items will be shown.



\* The actual screen may be different from the ones in this manual.

### **Menu Tree**

- :Shaded areas indicate the default value.
- $-\leftarrow \rightarrow +$ : Press the  $\blacktriangleleft$  or  $\blacktriangleright$  button to adjust.
- :Menu items in a ruled box are available when the ADVANCED OSM is set to ON.

En-20 En-20 En-20 En-20 En-20 En-20 En-20 En-20 En-21
En-20 En-20 En-20 En-20 En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-20 En-20 En-20 En-20 En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-20 En-20 En-20 En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-20 En-20 En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-20 En-20 En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-20 En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-20 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21 En-21
En-21 En-21 En-21 En-21
En-21 En-21 En-21
En-21 En-21
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En-23 En-23 En-23 En-23 En-23
En-23 En-23 En-23 En-23 En-23
En-23 En-23 En-23 En-23 En-23 En-23
En-23 En-23 En-23 En-23 En-23 En-23 En-23 En-24
En-23 En-23 En-23 En-23 En-23 En-23

Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
OPTION2	PWR. MGT.	OFF←→ON			YES	En-25
	CINEMA MODE	OFF←→ON			YES	En-25
	LONG LIFE	PLE	AUTO/LOCK 1/LO	CK 2/LOCK 3	YES	En-25
		ORBITER	AUTO 1		YES	En-26
			AUTO 2		YES	En-26
			MANUAL	H-DOT/V-LINE/TIME	YES	En-26
		INIVERSE	OFF		YES	En-26
		INVERSE	OFF	MACDIZING TIME AMAITING TIME	YES	En-26
			ON WHITE	WORKING TIME/WAITING TIME	YES YES	En-26 En-26
		SCREEN WIPER	OFF		YES	En-27
		SUNLLIN WIFLI	ON	WORKING TIME/WAITING TIME/SPEED	YES	En-27
		SOFT FOCUS	OFF/1/2/3/4	WORKING TIME/WAITING TIME/3FEED	YES	En-27
	GRAY LEVEL	0←…→3←…→			YES	En-27
	S1/S2	AUTO←→0FF	10		YES	En-27
	PICTURE SIZE*3	OFF←→ON			YES	En-28
	DVI SET UP	PLUG/PLAY	PC←→STB/DVD		NO	En-28
		BLACK LEVEL	LOW←→HIGH		NO	En-28
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
OPTION3	TIMER	PRESENT TIME	SUMMER TIME	OFF←→ON	NO	En-28
			DAY/HOUR/MINU		NO	En-28
		PROGRAM	OFF		YES	En-29
			ON	DATE/ON/OFF(HOUR, MINUTES)/INPUT/FUNCTION	YES	En-29
		MULTI REPEAT	OFF		YES	En-29
			ON	MULTI MODE/WORK TIME/INPUT MODE	YES	En-29
	PWR. ON MODE	INPUT	LAST /MULTI/ VID	DEO 1-3 / HD/DVD 1-3 / RGB 1-3	YES	En-30
		VOLUME	$LAST \leftarrow \rightarrow 0 \leftarrow \cdots \rightarrow$	→44	YES	En-30
	CONTROL LOCK	$OFF \leftarrow \rightarrow ON$			YES	En-30
	IR REMOTE	OFF←→ON			YES	En-30
	LOOP OUT	OFF←→ON			YES	En-30
	REMOTE ID	$ALL \leftarrow \rightarrow 1 \leftarrow \cdots \rightarrow c$	4		NO	En-30
	ID NUMBER	$ALL \leftarrow \rightarrow 1 \leftarrow \cdots \rightarrow 2$			YES	En-31
	VIDEO WALL	DIVIDER	OFF/1/4/9/16/25		YES	En-31
		POSITION		$0.7 \leftarrow \cdots \rightarrow N0.15/N0.16 \leftarrow \cdots \rightarrow N0.31/N0.32 \leftarrow \cdots \rightarrow N0.56$	_	En-31
		DISP. MODE	SPLIT←→BLANK		YES	En-32
		AUTO ID	OFF←→ON	NODIMAL (FULL (OTABULA GOOM (2.05.4.4.4.0 GDUE+2.	YES	En-32
		IMAGE ADJUST	ASPECT MODE V-POSITION/H-PO FINE PICTURE*1/F	NORMAL/FULL/STADIUM/Z00M/2.35:1/14:9/TRUE*3 DSITION/V-HEIGHT/H-WIDTH/AUTO PICTURE/ PICTURE AD.1 *1	_	En-32
		P. ON DELAY	OFF/ON/MODE1/N		YES	En-32
		PLE LINK	OFF←→ON		YES	En-33
		REPEAT TIMER	OFF		YES	En-33
			ON	DIVIDER/SOURCE/WORK TIME	YES	En-33
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
OPTION4	SUB. PICTURE	SUB. P DETECT	OFF←→AUTO	Out mond T	YES	En-34
OI HON4	JUD. I IUTUNL	DISPLAY	FADE←→NORMA	II.	YES	En-34
		SUB. P RATE	20%←→100%	L	YES	En-34
	ZOOM NAV			M RGT←→TOP RGT←→TOP LFT	YES	En-34
	PIC FREEZE			IM LFT $\longleftrightarrow$ BTM RGT $\longleftrightarrow$ TOP RGT $\longleftrightarrow$ TOP LFT	YES	En-34
	SEAMLESS SW	OFF			YES	En-35
		ON	SELECT1/SELECT	2	YES	En-35
	TEXT INSERT		H/MID LOW/BOTTO		YES	En-35
			INPUT/PIC. RATE/	DISPLAY	YES	En-35
Main menu	Sub menu	Sub menu 2	Sub menu 3	Sub menu 4	RESET	REFERENCE
ADVANCED OSM	OFF←→ON	YES	En-36			
LANGUAGE	ENGLISH/DEUTSCH	I/FRANÇAIS/ESPAÑOL	/ITALIANO/SVENS	(A/中文/РУССКИЙ/ЕЛЛНNIKA/PORTUGUÊS/TÜRKÇE	NO	En-36
COLOR SYSTEM		43 NTSC/PAL/PAL 60/I	PAL-N/PAL-M/SECA	AM	NO	En-36
SUIBLE INFORMATION						En-36

<sup>\*1</sup> Only when AUTO PICTURE is OFF

SOURCE INFORMATION —

### Information

### ■ Restoring the factory default settings

Select "ALL RESET" under the OPTION1 menu. Note that this also restores other settings to the factory defaults.

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<sup>\*2</sup> RGB/PC only \*3 "PICTURE SIZE", "TRUE" and "LOW TONE" are only for 50 and 61 inch types.

### **Picture Settings Menu**

### Adjusting the picture

The contrast, brightness, sharpness, color and tint can be adjusted as desired.

Example: Adjusting the contrast

On "CONTRAST" of "PICTURE" menu, adjust the contrast.





**Note:** If "CAN NOT ADJUST" appears ... When trying to enter the PICTURE submenu, make sure PICTURE MODE is not set to DEFAULT.

### Information

### ■ Picture adjustment screen

CONTRAST: Changes the picture's white level. BRIGHTNESS: Changes the picture's black level. SHARPNESS: Changes the picture's sharpness. Adjusts picture detail of VIDEO display.

COLOR: Changes the color density.

TINT: Changes the picture's tint. Adjust for natural colored skin, background, etc.

### ■ Adjusting the computer image

Only the contrast and brightness can be adjusted when a computer signal is connected.

### ■ Restoring the factory default settings

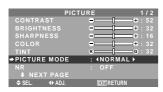
Select "DEFAULT" under the "PICTURE MODE" settings.

# Setting the picture mode according to the brightness of the room

There are four picture modes that can be used effectively according to the environment in which you are viewing the display.

Example: Setting the "THEAT. 1" mode

On "PICTURE MODE" of "PICTURE" menu, select "THEAT. 1".





### Information

### **■** Types of picture modes

THEAT. 1, 2: Set this mode when watching video in a dark room.

This mode provides darker, finer pictures, like the screen in movie theaters.

For a darker image, select THEAT. 2.

NORMAL: Set this mode when watching video in a bright room.

This mode provides dynamic pictures with distinct differences between light and dark sections.

BRIGHT: This mode provides brighter pictures than NORMAL.

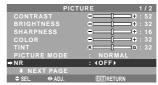
**DEFAULT**: Use this to reset the picture to the factory default settings.

### Reducing noise in the picture

Use these settings if the picture has noise due to poor reception or when playing video tapes on which the picture quality is poor.

Example: Setting "NR-3"

On "NR" of "PICTURE" menu, select "NR-3".





### Information

### ■ NR

- \* "NR" stands for Noise Reduction.
- \* This function reduces noise in the picture.

### ■ Types of noise reduction

There are three types of noise reduction. Each has a different level of noise reduction.

The effect becomes stronger as the number increases (in the order NR-1  $\rightarrow$  NR-2  $\rightarrow$  NR-3).

OFF: Turns the noise reduction function off.

### Setting the color temperature

Use this procedure to set color tone produced by the plasma display.

Example: Setting "HIGH"

On "COLOR TEMP." of "PICTURE" menu, select "HIGH".



### Information

### ■ Setting the color temperature

LOW: More red MID LOW: Slightly red MID: Standard (slightly bluer)

HIGH: More blue

### Adjusting the color to the desired level

Use this procedure to adjust the white balance for each color temperature to achieve the desired color quality.

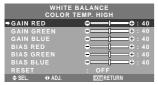
Example: Adjusting the "GAIN RED" of "HIGH" color temperature

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

On "COLOR TEMP." of "PICTURE" menu, select "HIGH", then press the MENU/ENTER button.

The "WHITE BALANCE" screen appears.

On "GAIN RED", adjust the white balance.





### Information

### ■ Adjusting the white balance

GAIN R/G/B: White balance adjustment for white level. BIAS R/G/B: White balance adjustment for black level. RESET: Resets settings to the factory default values. Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

### ■ Restoring the factory default settings

Select "RESET" under the WHITE BALANCE menu.

### **Changing the Gamma Curve**

This feature adjusts the brightness of the midtone areas while keeping shadows and highlights unchanged.

Example: Setting "3"

Set "ADVANCED OSM" to "ON" in the MAIN MENU. On "GAMMA" of "PICTURE" menu, select "3".



### Information

### **■** GAMMA settings

The picture becomes darker as the number increases (in the sequence of 1, 2, 3, 4).

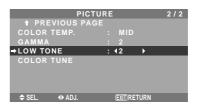
### Making the Low Tone adjustments

This feature allows more detailed tone to be reproduced especially in the dark area.

\* This function is available only for 50 and 61 inch types.

Example: Setting "2"

Set "ADVANCED OSM" to "ON" in the MAIN MENU. On "LOW TONE" of "PICTURE" menu, select "2".



### Information

### **■ LOW TONE settings**

AUTO: Will automatically appraise the picture and make adjustments.

- 1: Will apply the dither method suitable for still pictures.
- 2: Will apply the dither method suitable for motion pictures.
- 3: Will apply the error diffusion method.

### Adjusting the colors

Use this procedure to adjust hue and color density for red, green, blue, yellow, magenta and cyan without changing the white point.

You can accentuate the green color of trees, the blue of the sky, etc.

Example: Adjusting the color tune for blue

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

On "PICTURE" menu, select "COLOR TUNE", then press the MENU/ENTER button.

The "COLOR TUNE" screen appears.

On "BLUE" of "COLOR TUNE", adjust the color tune.



### Information

### **■ COLOR TUNE settings**

RED: Adjusts hue of Red

GREEN: Adjusts hue of Green BLUE: Adjusts hue of Blue

YELLOW: Adjusts hue of Yellow MAGENTA: Adjusts hue of Magenta

CYAN: Adjusts hue of Cyan

RESET: Resets settings to the factory default value. Use ◀ and ▶ buttons to select "ON", then press the

MENU/ENTER button.

### **Audio Settings Menu**

# Adjusting the treble, bass and left/right balance and audio input select

The treble, bass and left/right balance can be adjusted to suit your tastes.

Example: Adjusting the bass

On "BASS" of "AUDIO" menu, adjust the bass.



**Note:** If "CAN NOT ADJUST" appears... Set "AUDIO INPUT" on the AUDIO menu correctly.

### Information

### ■ Audio settings menu

BASS: Controls the level of low frequency sound. TREBLE: Controls the level of high frequency sound. BALANCE: Controls the balance of the left and right channels.

### Setting the allocation of the audio connectors

Setting the AUDIO 1, 2, and 3 connectors to the desired input.

Example: Setting "AUDIO INPUT1" to "VIDEO 2"

On "AUDIO INPUT1" of "AUDIO" menu, select "VIDEO2".

The available sources depend on the settings of input.



### Information

### **■ AUDIO INPUT**

A single audio input cannot be selected as the audio channel for more than one input terminal.

### **Image Adjust Settings Menu**

### Adjusting the Position, Size, Fine Picture, Picture Adj

The position of the image can be adjusted and flickering of the image can be corrected.

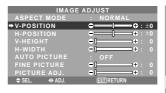
Example: Adjusting the vertical position in the normal mode

On "V-POSITION" of "IMAGE ADJUST" menu, adjust the position.

The mode switches as follows each time the ◀ or ▶ button is pressed:

### $\textbf{NORMAL} \leftrightarrow \textbf{FULL}$

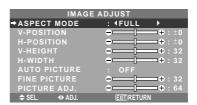
- \* The mode can also be switched by pressing the WIDE button on the remote control.
- \* The settings on the IMAGE ADJUST menu are not preset at the factory.





### Information

### ■ When "AUTO PICTURE" is "OFF"



When Auto Picture is off, the Fine Picture and the Picture ADJ. items are displayed so that you can adjust them.

### ■ Adjusting the Auto Picture

ON: The Picture ADJ., Fine Picture and Position adjustments are made automatically.

Not available for digital ZOOM.

OFF: The Picture ADJ., Fine Picture and Position adjustments are made manually.

\* If FINE PICTURE can't be adjusted, set Auto Picture to OFF and adjust manually.

### ■ Adjusting the position of the image

V-POSITION: Adjusts the vertical position of the image

H-POSITION: Adjusts the horizontal position of the image.

V-HEIGHT: Adjusts the vertical size of the image.

(Not available for STADIUM mode)

H-WIDTH: Adjusts the horizontal size of the image. (Not available for STADIUM mode)

FINE PICTURE\*: Adjusts for flickering.

PICTURE ADJ.\*: Adjusts for striped patterns on the image (i.e. vertical banding).

- \* The Picture ADJ. and Fine Picture features are available only when the "Auto Picture" is off.
- \* The AUTO PICTURE, FINE PICTURE and PICTURE ADJ. are available only for RGB signals.
  But, these features are not available for moving pictures on VIDEO, HD/DVD or RGB.

### **Option 1 Settings Menu**

### Setting the on-screen menu

This sets the position of the menu, the display format (horizontal or vertical) etc.

Example: Turning the DISPLAY OSM off

On "OPTION1" menu, select "OSM", then press the MENU/ENTER button.

The "OSM" menu appears.

On "DISPLAY OSM" of "OSM" menu, select "OFF".



### Information

### **■ DISPLAY OSM settings**

ON: The informations on screen size, volume control, etc. will be shown.

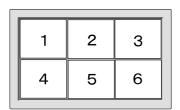
OFF: The informations on screen size, volume control, etc. will not be shown.

The DISPLAY button on the remote control will not function either.

### ■ OSM ADJUST settings

Adjusts the position of the menu when it appears on the screen.

The position can be set between 1 to 6.



### **■ OSM ANGLE settings**

Sets the display format (landscape "H" or portrait "V"). When the unit is installed vertically set the OSM ANGLE at "V".

"H"





### **■ OSM ORBITER settings**

ON: The position of the menu will be shifted by eight dots each time OSM is displayed.

OFF: OSM will be displayed at the same position.

### ■ OSM CONTRAST settings

NORMAL: OSM brightness is set to normal. LOW: OSM brightness is set to lower.

### **Setting the BNC input connector type**

Select whether to set the input of the 5 BNC connectors to RGB, Component or SCART1,2.

Example: Set the BNC INPUT mode to "COMP."

On "BNC INPUT" of "OPTION1" menu, select "COMP.".



### Information

### **■ BNC INPUT Settings**

RGB: Use the 5BNC terminals for RGB input.

COMP.: Use the 3BNC terminals for component input. SCART1: Use the 4BNC terminals for RGB with

composite sync. See page En-9.

SCART2: Use the 3BNC terminals for RGB and the VIDEO1 terminal for composite sync. See page En-9.

### Setting the RGB1 connector

Select one of the signals being transmitted to the RGB1 terminal.

Example: Set the D-SUB INPUT mode to "SCART3"

On "D-SUB INPUT" of "OPTION1" menu, select "SCART3".



### Information

### **■ D-SUB INPUT Settings**

RGB: Use the D-SUB terminal for RGB input. SCART3: Use the D-SUB terminal for RGB signal fed from SCART. See page En-9.

# Setting a computer image to the correct RGB select screen

With the computer image, select the RGB Select mode for a moving image such as (video) mode, wide mode or digital broadcast.

Example: Setting the "RGB SELECT" mode to "852 $\times$ 480"

On "RGB SELECT" of "OPTION1" menu, select " $852 \times 480$ ".



### Information

### **■ RGB SELECT modes**

AUTO: Select the suitable mode for the specifications of input signals as listed in the table "Computer input signals supported by this system" on page En-39.

The others: The available resolutions are shown. *See page En-39 for the details of the above settings.* 

# Setting high definition images to the suitable screen size

Use this procedure to set whether the number of vertical lines of the input high definition image is 1035 or 1080.

Example: Setting the "HD SELECT" mode to "1035I"

On "HD SELECT" of "OPTION1" menu, select "1035I".



### Information

### **■ HD SELECT modes**

These 3 modes are not displayed in correct image automatically.

1080B: Standard digital broadcasts

10351: Japanese "High Vision" signal format

1080A: Special Digital broadcasts (for example :

DTC100)

### Setting the Input Skip

When this is ON, signals which are not present will be skipped over and only pictures whose signals are being transmitted will be displayed.

This setting is valid only for the INPUT SELECT button on the unit.

Example: Set to "ON"

On "INPUT SKIP" of "OPTION1" menu, select "ON".



### Information

### **■ INPUT SKIP settings**

OFF: Regardless of the presence of the signal, scan and display all signals.

ON: If no input signal is present, skip that signal.

\* "SETTING NOW" will appear during the input search.

### Resetting to the default values

Use these operations to restore all the settings (PICTURE, AUDIO, IMAGE ADJUST, OPTION1~4, etc) to the factory default values.

Refer to page En-18 for items to be reset.

On "ALL RESET" of "OPTION1" menu, select "ON", then press the MENU/ENTER button.





When the "SETTING NOW" screen disappears, then all the settings are restored to the default values.

### **Option2 Settings Menu**

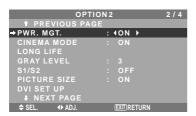
Set "ADVANCED OSM" to "ON" in the MAIN MENU.

# Setting the power management for computer images

This energy-saving (power management) function automatically reduces the monitor's power consumption if no operation is performed for a certain amount of time.

Example: Turning the power management function on

On "PWR. MGT." of "OPTION2" menu, select "ON".



### Information

### ■ Power management function

- \* The power management function automatically reduces the monitor's power consumption if the computer's keyboard or mouse is not operated for a certain amount of time. This function can be used when using the monitor with a computer.
- \* If the computer's power is not turned on or if the computer and selector tuner are not properly connected, the system is set to the off state.
- \* For instructions on using the computer's power management function, refer to the computer's operating instructions.

### ■ Power management settings

ON: In this mode the power management function is turned on.

OFF: In this mode the power management function is turned off.

### ■ Power management function and POWER/ STANDBY indicator

The POWER/STANDBY indicator indicates the status of the power management function. See below for indicator status and description.

### **POWER/STANDBY** indicator

Power management mode	POWER/ STANDBY indicator	Power management operating status	Description	Turning the picture back on
On	Green	Not activated.	Horizontal and vertical synchronizing signals are present from the computer.	Picture already on.
Off	Red	Activated.	Horizontal and/or vertical synchronizing signals are not sent from the computer.	Operate the keyboard or mouse. The picture reappears.

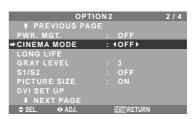
### Setting the picture to suit the movie

The film image is automatically discriminated and projected in an image mode suited to the picture.

[NTSC, PAL, PAL60, 480I (60Hz), 525I (60Hz), 576I (50Hz), 625I (50Hz), 1035I (60Hz), 1080I (60Hz) only]

Example: Setting the "CINEMA MODE" to "OFF"

On "CINEMA MODE" of "OPTION2" menu, select "OFF".



### Information

### **■ CINEMA MODE**

ON: Automatic discrimination of the image and projection in cinema mode.

OFF: Cinema mode does not function.

### Reducing image retention

The brightness of the screen, the position of the picture, positive/negative mode and screen wiper are adjusted to reduce image retention.

On "OPTION2" menu, select "LONG LIFE", then press the MENU/ENTER button.

The "LONG LIFE" screen appears.



### PLE (Peak Luminance Enhancement)

Use this to activate the brightness limiter.

Example: Setting "PLE" to "LOCK1"

On "PLE" of "LONG LIFE" menu, select "LOCK1".



### Information

### ■ PLE settings

AUTO: The brightness of the screen is adjusted automatically to suit the picture quality.

LOCK1, 2, 3: Sets maximum brightness.

The brightness level decreases in the order of LOCK 1, 2, 3. LOCK 3 provides minimum brightness.

### **ORBITER**

Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO2"

On "ORBITER" of "LONG LIFE" menu, select "AUTO2".



### Information

### **■** ORBITER settings

OFF: Orbiter mode does not function.

This is the default setting when RGB is input.

AUTO1: The picture moves around the screen intermittently, making the picture smaller. This is the default setting when a Video or a DVD/HD/DTV signal is input. Set to "OFF" when these signals are not used. AUTO2: The picture moves around the screen intermittently, making the picture bigger.

MANUAL: User can adjust the orbiter function (Horizontal Dot, Vertical Line and Time) manually. See the following explanation.

\* When a Video or a DVD/HD/DTV signal is input, the AUTO1 and 2 functions will affect only the moving picture and will not make the screen smaller or bigger.

### Adjust the ORBITER function manually

Set the amount of shift and the time between movement.

Example: Setting so that the picture moves 2 dots horizontally and 4 lines vertically every 3 minutes.

On "ORBITER" of "LONG LIFE" menu, select "MANUAL", then press the MENU/ENTER button.
THE "ORBITER" screen appears.

Adjust the items.



### Information

### **■** ORBITER Function settings

H-DOT: Moves from 1 to 20 dots in the horizontal direction.

V-LINE: Moves from 1 to 20 lines in the vertical direction.

TIME: Interval of 1~5 minutes (1 horizontal dot or 1 vertical line per interval).

### **INVERSE**

Use this to set the inverse mode or to display a white screen

Example: Setting "INVERSE" to "WHITE"

On "INVERSE" of "LONG LIFE" menu, select "WHITE".



### Information

### **■ INVERSE Settings**

ON: The picture is displayed alternately between positive image and negative image.

You can set the time by pressing the MENU/ENTER button while "ON" is set.

OFF: Inverse mode does not function.

WHITE: The entire screen turns white.

You can set the time by pressing the MENU/ENTER button while "ON" is set.

### Setting the time for INVERSE/WHITE

Set a time duration.

Example: Setting to that the INVERSE mode starts in 2 hours and proceeds for one hour and a half.

On "INVERSE" of "LONG LIFE" menu, select "ON", then press the MENU/ENTER button.

THE "INVERSE/WHITE" screen appears.

Adjust the times.



### Information

### ■ Setting the time

WORKING TIME: Set the time duration for "INVERSE/WHITE".

When the WORKING TIME is set to "ON" the mode will stay on.

WAITING TIME: Set the standby time until the "INVERSE/WHITE" mode starts.

- \* The "WAITING TIME" can not be set when the "WORKING TIME" is ON.
- \* THE "WORKING TIME" and "WAITING TIME" can be set for up to 12 hours and 45 minutes in units of 3 minutes.
- \* Ending a WORKING TIME function, the monitor will go to STAND BY.

[Example]

WORKING TIME: 01H30M WAITING TIME: 02H00M k─── 2 H ────────────────────── 1.5 H ─────────────────

# Start INVERSE/WHITE Start STAND BY ■ To select "ON" for the "WORKING TIME"...

Set the hours of the working time to 0H and the minutes to 0M. "ON" will be displayed.

### **SCREEN WIPER**

When this is set to ON, a white vertical bar moves repeatedly from the left and of the screen to the right end at a constant speed.

Example: Setting "SCREEN WIPER" to "ON"

On "SCREEN WIPER" of "LONG LIFE" menu, select "ON".



### Information

### **■ SCREEN WIPER**

ON: The white vertical bar appears.

You can set the time by pressing the MENU/ENTER button while "ON" is set.

OFF: Screen wiper mode does not function.

### Setting the time for SCREEN WIPER

Set a time duration and the speed.

Example: Setting so that the SCREEN WIPER mode starts in 30 minutes and proceeds for one and a half hours.

On "SCREEN WIPER" of "LONG LIFE" menu, select "ON", then press the MENU/ENTER button.

THE "SCREEN WIPER" screen appears.

Adjust the times and speed.



### Information

### ■ Setting the time

WORKING TIME: Set the time duration for "SCREEN WIPER".

When the WORKING TIME is set to "ON" the mode will stay on.

WAITING TIME: Set the standby time until the "SCREEN WIPER" mode starts.

SPEED: Set the moving speed for the "SCREEN WIPER". The speed decreases as the number increases.

- \* The "WAITING TIME" can not be set when the "WORKING TIME" is ON.
- \* THE "WORKING TIME" and "WAITING TIME" can be set for up to 12 hours and 45 minutes in units of 3 minutes.

### ■ To select "ON" for the "WORKING TIME"...

Set the hours of the working time to 0H and the minutes to 0M. "ON" will be displayed.

### SOFT FOCUS

Reduces edges and softens the image.

Example: Setting "SOFT FOCUS" to "2"

On "SOFT FOCUS" of "LONG LIFE" menu, select "2".



### Information

### ■ SOFT FOCUS settings

OFF: Turns the SOFT FOCUS function off.

1, 2, 3, 4: Activates the SOFT FOCUS setting. The higher numbers create a softer image.

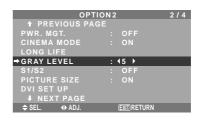
"SHARPNESS" can not be adjusted in the "PICTURE" menu.

### Setting the gray level for the sides of the screen

Use this procedure to set the gray level for the parts on the screen on which nothing is displayed when the screen is set to the 4:3 size.

Example: Setting "GRAY LEVEL" to "5"

On "GRAY LEVEL" of "OPTION2" menu, select "5".



### Information

### **■** GRAY LEVEL settings

This adjusts the brightness of the black (the gray level) for the sides of the screen.

The standard is 0 (black). The level can be adjusted from 0 to 15. The factory setting is 3 (dark gray).

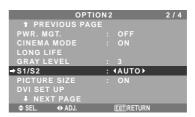
### Setting the screen size for S1/S2 video input

If the S-video signal contains screen size information, the image will be automatically adjusted to fit the screen when this S1/S2 is set to AUTO.

This feature is available only when an S-video signal is input via the VIDEO3 terminal.

Example: Setting the "S1/S2" to "AUTO"

On "S1/S2" of "OPTION2" menu, select "AUTO".



### Information

### ■ S1/S2 settings

AUTO: Adjusts the screen size automatically according to the S1/S2 video signal.

OFF: Turns the S1/S2 function off.

### Setting the picture size for RGB input signals

Use this procedure to switch the setting to "ON" or "OFF".

st This function is available only for 50 and 61 inch types.

Example: Setting the "PICTURE SIZE" mode to "OFF"

On "PICTURE SIZE" of "OPTION2" menu, select "OFF".



# Setting the signal and black level for DVI signal

Choose the signal for the DVI connector (PC or STB/DVD) and set the black level.

Example: Setting the "PLUG/PLAY" mode to "STB/DVD"

On "OPTION2" menu, select "DVI SET UP", then press the MENU/ENTER button.

The "DVI SET UP" screen appears.

On "PLUG/PLAY" of "DVI SET UP" menu, select "STB/DVD".



### Information

### **■ PLUG/PLAY settings**

PC: When connected to the PC signal.

BLACK LEVEL is set to "LOW" automatically. STB/DVD: When connected to the SET TOP BOX, DVD etc.

BLACK LEVEL is set to "HIGH" automatically.

### **■ BLACK LEVEL settings**

LOW: When connected to the PC signal.

HIGH: When connected to the SET TOP BOX, DVD etc. Change "HIGH" into "LOW" if the black level appears gray.

### **Option3 Settings Menu**

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

### Using the timer

This function sets the monitor to turn ON/OFF automatically at a set time.

On "OPTION3" menu, select "TIMER", then press the MENU/ENTER button.

The "TIMER" screen appears.



### PRESENT TIME

This sets the day of the week and present time.

Example: Setting "WEDNESDAY", "22:05"

On "TIMER" menu, select "PRESENT TIME", then press the MENU/ENTER button.

The "PRESENT TIME" screen appears.

Adjust the items.



Select "SET", then press the MENU/ENTER button.

The adjustments are stored and the TIMER menu reappears.

\* If you press the EXIT button instead of the MENU/ENTER button, the settings can not be made.



### Information

### **■ PRESENT TIME settings**

SUMMER TIME: Use to set SUMMER TIME.

ON: The present time + 1 hour.

OFF: Cancelled

Day: Set the day of the week (e.g. Sunday).

Hour: Set the hour in the 24-hour format (range 00 to

23).

Minutes: Set the minutes (range 00 to 59).

### **PROGRAM TIMER**

This sets the day and time at which the power will be switched ON/OFF as well as the input mode.

Example: Setting so that the power will be switched on at 8:30 A.M., Monday, displaying RGB2 source, and switched off at 10:30 A.M.

On "PROGRAM" of "TIMER" menu, select "ON", then press the MENU/ENTER button.

The "PROGRAM TIMER" screen appears.

Adjust the items.

Each mode switches each time the ZOOM +/- button is pressed.



### Information

### **■ PROGRAM TIMER settings**

DATE: Set the day of the week (e.g. Sunday).

ON (hour, minutes): Set the time at which the power will be turned on in the 24-hour format.

OFF (hour, minutes): Set the time at which the power will be turned off in the 24-hour format.

INPUT: Set the input mode that will be displayed when the timer is on.

FUNCTION: Set the LONG LIFE function.

### ■ To reset the program

Align the cursor with the DATE field that you wish to reset, then press the CLEAR/SEAMLESS SW button.

### ■ To reset the data

Align the cursor with the field (ON/OFF/INPUT/FUNCTION) that you wish to reset, then press the CLEAR/SEAMLESS SW button.

# ■ Special characters in the PROGRAM TIMER screen



- An asterisk "\*" in the DATE field An asterisk "\*" means "every". For example, "\*FRI" means every Friday and "\*" means everyday.
- A hyphen "-" in the ON field or OFF field If any hyphen remains in the ON field or OFF field, the FUNCTION can not be set.
- A hyphen "-" in the FUNCTION field A hyphen "-" means last mode (the mode that was last selected at the time the power was switched off).

### **■** To set MULTI INPUT

• Set the INPUT button to "MULTI", then press the MENU/ENTER button.

The "MULTI SCREEN SETTING" will appear on the screen.

- Use the ▲ and ▼ buttons to select "MULTI MODE", then use the ◀ and ▶ buttons to choose from "SINGLE", "SIDE BY SIDE1~3" and "PICTURE IN PICTURE (BOTTOM LEFT~TOP LEFT)".
- Use the ▲ and ▼ buttons to select "MAIN"/ "SUB" and "LEFT"/"RIGHT", then use the ◄ and ▶ buttons to choose from "VIDEO1~3", "HD/DVD1~3" and "RGB/PC1~3".

PROGRAM TIMER								
DATE	ON	OFF	INPUT	FUNCTION				
MON			MULTI	INVERSE				
TUE								
SAT	08:30		VIDEO1	WHITE				
*FRI			HD/DVD1					
SAT	08:30		VIDE01	WHITE				
*			RGB1					
<b>♦</b> ♦ SE	L. ( <u>Z</u> 0	OM ADJ.	(EXIT) RET	URN				

### PICTURE IN PICTURE

### SIDE BY SIDE





### **MULTI REPEAT**

Two repeat timers are available.

Each timer has MULTI MODE, WORK TIME and INPUT MODE functions.

### Example:

TIMER1 is set to display RGB/PC1 (MAIN) and VIDEO1 (SUB) for 4 hours in picute-in-picture mode. TIMER2 is set to display RGB/PC3 (LEFT) and HD/DVD1 (RIGHT) for 2.5 hours in side-by-side mode.

On "MULTI REPEAT" of "TIMER", select "ON", then press the MENU/ENTER button.

The "MULTI REPEAT TIMER" screen appears. Adjust the items.





### Information

### **■ MULTI REPEAT settings**

MULTI MODE: Set the input mode to be displayed while the timer is on.

WORK TIME: Set the time duration of the display. Time range is from 1 minutes to 4 hours and 15 minutes. INPUT MODE: Set the signal that will be displayed within the selected screen.

Select "MAIN" or "SUB" for "PICTURE IN PICTURE (BTM LFT~TOP LFT)" and "LEFT" or "RIGHT" for "S BY S1~3". Only one signal is selected for "SINGLE".

- \* The two repeat timers run consecutively, i.e., Timer1—Timer2—Timer1—Timer2.
- \* When both PROGRAM TIMER and MULTI REPEAT TIMER are set, priority is given to PROGRAM TIMER.

### Setting the power on mode

This function sets the input mode and the sound volume at the time the power is switched on.

Example: Setting the input mode to "VIDEO2"

On "OPTION3" menu, select "PWR.ON MODE", then press the MENU/ENTER button.

The "PWR.ON MODE" screen appears.

On "INPUT" of "PWR.ON MODE" menu, select "VIDEO2".

The available inputs depend on the setting of input.



### Information

### **■ INPUT settings**

LAST: Last mode (the input that was last selected at the time the power was switched off).

VIDEO1, 2, 3: VIDEO input mode.

RGB1, 2, 3: RGB input mode.

HD/DVD1, 2: HD/DVD input mode.

HD/DVD2, 3: DVD input mode.

MULTI: Multi screen mode.

Follow the procedure used for PROGRAM TIMER. See page En-29.

### PICTURE IN PICTURE







### ■ VOLUME settings

LAST: Last mode (the volume that was last selected at the time the power was switched off).

0 to 44: The level of sound volume.

### Enabling/disabling the front panel controls

This function enables/disables the front panel controls.

Example: Setting "ON"

On "CONTROL LOCK" of "OPTION3" menu, select "ON", then press the MENU/ENTER button.



### Information

### **■** CONTROL LOCK settings

ON: Disables the buttons on the front panel.

OFF: Enables the buttons on the front panel.

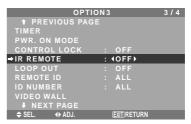
- \* Even when the CONTROL LOCK is set, the POWER switch will not be locked.
- \* This becomes effective when the on-screen menu goes out.

## **Enabling/disabling remote control wireless transmission**

This function enables/disables remote control wireless transmission.

Example: Setting "OFF"

On "IR REMOTE" of "OPTION3" menu, select "OFF", then press the MENU/ENTER button.



### Information

### **■ IR REMOTE settings**

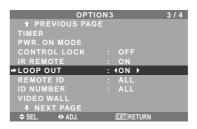
ON: Enables remote control wireless transmission. OFF: Disables remote control wireless transmission. Set "OFF" to avoid unwanted control from other remote controls.

### **Loop Out setting**

When this feature is set to ON, the received signal will be looped out.

Example: Setting "ON"

On "LOOP OUT" of "OPTION3" menu, select "ON".



### Information

### ■ LOOP OUT settings

ON: The received signal will be looped out via PC1 terminal or VIDEO1 terminal.

OFF: The received signal will not loop out.

- \* Even if LOOP OUT is ON, signals won't be sent out if POWER is being turned off.
- To connect another display...

See page En-6.

# ■ If the RGB/PC1 signal is present at the time the power switched on...

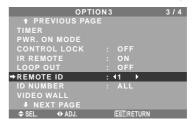
The RGB/PC1 input will be displayed regardless of the setting of LOOP OUT.

### **REMOTE ID setting**

Set the remote code to adapt the plasma monitor to the remote control.

Example: Setting to "1"

On the "REMOTE ID" of "OPTION3" menu, select "1".



Press and hold the POWER ON button, and release the button when the indication saying that the code is set is displayed. Or, press and hold the POWER STANDBY button, and release the button when the power is turned

Information

### ■ REMOTE ID setting

ALL: The remote code is not set.

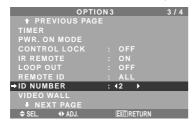
1 to 4: The specified remote code is applied.

### ID number setting

When using more than one of these displays, this function sets ID numbers so that operation of the remote control does not cause multiple monitors to operate at the same time.

Example: Setting "2"

On "ID NUMBER" of "OPTION3" menu, select "2".



\* To reset back to ALL

Press the CLEAR/SEAMLESS SW button

### Information

### **■ ID NUMBER settings**

ALL: ID NUMBER will not be set. 1 to 256: ID NUMBER will be set.

### ■ When the ID NUMBER have been set

You can also set ID NUMBER for each remote control to operate the plasma display individually. To do so, see the following explanation.

### To set the ID number for the remote control

Example: Setting "2"

Press the ID SELECT button on the remote control.

The "ID SELECT" screen appears.

On "ID NUMBER" of "ID SELECT" menu, select "2".



\* To reset back to ALL

Press the CLEAR/SEAMLESS SW button

### **Video Wall setting**

Use this feature to configure a  $(2 \times 2, 3 \times 3, 4 \times 4, 5 \times 5)$ video wall.

On "OPTION3" menu, select "VIDEO WALL", then press the MENU/ENTER button.

The "VIDEO WALL" screen appears.



**Note:** A contingency method of shutting off the electric power should be used in cases of emergency during video wall setup.

### **DIVIDER**

Set the  $(2\times2)$  video wall. Example: Setting "4"

On "DIVIDER" of "VIDEO WALL" menu, select "4".



### Information

### **■** DIVIDER settings

OFF, 1: 1 Screen (Matrix display function does not work)

4: 4 Screens (2×2 video wall)

9: 9 Screens (3×3 video wall)

16: 16 Screens (4×4 video wall)

25: 25 Screens (5×5 video wall)

\* When selecting a 2×2, 3×3, 4×4, 5×5 VIDEO WALL POSITION.

### VIDEO WALL POSITION

Set the position of each display.

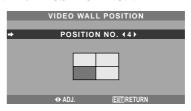
Example: Setting "4"

On "VIDEO WALL" menu, select "POSITION", then press

the MENU/ENTER button.

The "VIDEO WALL POSITION" screen appears.

Select "NO. 4" of "POSITION NO.".



### Information

### ■ VIDEO WALL POSITION settings

1 Screen: There is no need to set POSITION.

NO. 1	NO. 2
NO. 4	NO. 3

9 Screens

NO. 7	NO. 8	NO. 9
NO. 10	NO. 11	NO. 12
NO. 13	NO. 14	NO. 15

### 16 Screens

		•	
NO. 16	NO. 17	NO. 18	NO. 19
NO. 20	NO. 21	NO. 22	NO. 23
NO. 24	NO. 25	NO. 26	NO. 27
NO. 28	NO. 29	NO. 30	NO. 31

### 25 Screens

NO. 32	NO. 33	NO. 34	NO. 35	NO. 36
NO. 37	NO. 38	NO. 39	NO. 40	NO. 41
NO. 42	NO. 43	NO. 44	NO. 45	NO.46
NO. 47	NO. 48	NO. 49	NO. 50	NO. 51
NO. 52	NO. 53	NO. 54	NO. 55	NO. 56

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### DISP. MODE

Select the screen mode between two choices (Splitting, Blanking).

Example: Setting "BLANK"

On "DISP. MODE" of "VIDEO WALL" menu, select "BLANK".



### Information

### **■ DISP. MODE settings**

SPLIT: Combines enlarged screens and creates multiple screens.

BLANK: Corrects misalignment of combined screen portions and creates multiple screens.

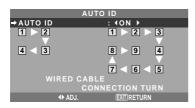
### **AUTO ID**

This feature automatically sets the ID numbers of multiple displays connected to each other.

Example: Setting "ON"

Set the ID number for the No. 1 display on ID NUMBER menu.

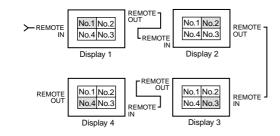
On "AUTO ID" of "VIDEO WALL" menu, select "ON", then press the MENU/ENTER button.



### Information

### ■ AUTO ID settings

ON: Enables Auto ID function. In the case shown below, display 1 will be set as ID 1, display 2 as ID2, etc. This can be set only when a 2×2 or 3×3 video wall is selected.



OFF: Disables Auto ID function.

### **IMAGE ADJUST**

The position of the image can be adjusted and flickering of the image can be corrected.

Example: Adjusting the vertical position

On "VIDEO WALL" menu, select "IMAGE ADJUST", then press the MENU/ENTER button.

The "IMAGE ADJUST" screen appears.

On "V-POSITION" of "IMAGE ADJUST" menu, adjust the position.

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### Information

### **■ IMAGE ADJUST settings**

These are the same functions as the IMAGE ADJUST menu on page En-22.

### P. ON DELAY (Power on delay)

Use this function to activate power-on delay.

Turn on the AUTO ID before the following operations.

Example: Setting "ON"

On "P. ON DELAY" of "VIDEO WALL" menu, select "ON".



### Information

### ■ P. ON DELAY settings

ON: Turns on the main power of each display after a delay time.

OFF: Turns on the main power of all displays at the same time.

(Only for 4×4 and 5×5 video wall modes)

MODE1: Turns on the main power of each display delayed.

MODE2: Turns on the main power of each display more delayed.

- \* Once this function has been set to "ON", POWER ON/ OFF button on the remote control does not function except for the No.1 monitor.
  - By pressing the POWER ON button on the remote control the No.1 monitor will turn on and the others will be turned on one by one automatically.
- \* From the second monitor onward, neither the POWER button on the unit nor the POWER ON button on the remote control works. However, by pressing and holding the POWER ON button for more than 3 seconds, the monitor will be turned on.

### PLE LINK

Use this function to set a uniform brightness for each display.

Turn on the AUTO ID and set the DIVIDER (at 1, 4 or 9) before the following operations.

Example: Setting "ON"

On "PLE LINK" of "VIDEO WALL" menu, select "ON", then press the MENU/ENTER button.



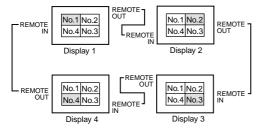
### Information

### **■ PLE LINK settings**

ON: Sets a uniform brightness for each screen in a video wall. This can be set only when a 2×2 or 3×3 video wall is selected.

OFF: Sets the individual screen brightness for each screen in a video wall.

- \* When this function is set "ON", connect your plasma displays with the remote cable (optional) in the order of the position numbers for the 2×2 video wall. See the drawing below.
- \* If there are changes in the DIVIDER or POSITION, the PLE LINK will automatically turn OFF.



\* With the 3×3 video wall, connect the final display to the first display the same way as with 2×2 video wall.

**Note:** The remote control can be operated unless the IR REMOTE is set to "OFF".

### REPEAT TIMER

Use this to set two timers. Each timer can use the DIVIDER, SOURCE and WORK TIME.

Turn on the AUTO ID and set the DIVIDER (at 1, 4 or 9) before the following operations.

### Example:

TIMER1...VIDEO1 will be displayed for 3 minutes.

TIMER2...RGB1 will be displayed for 6 minutes in a 2×2 video wall.

On "REPEAT TIMER" of "VIDEO WALL" menu, select "ON", then press the MENU/ENTER button.

The "REPEAT TIMER" screen appears.

Adjust the items.



### Information

### **■** REPEAT TIMER settings

DIVIDER: Divide the screen into 1, 4 or 9 sections. SOURCE: Set the input mode to be displayed.

WORK TIME: Can be set to up to 4 hours 15 minutes in units of 1 minute.

If you set both timers, Timer 1 and Timer 2 run consecutively.

In the case of the Video wall, timer No.1 can be used to control all the displays simultaneously.

\* This becomes effective when the on-screen menu goes out.

### **Option4 Settings Menu**

Set "ADVANCED OSM" to "ON" in the MAIN MENU.

# Removing the sub screen area when there is no input signal detected for the sub picture

This function automatically removes the black frame of the sub screen when there is no sub screen input signal. This feature is available only when the picuture-in-picuture mode is selected.

Example: Setting "DISPLAY" to "FADE"

On "SUB. PICTURE" of "OPTION4" menu, press the MENU/ENTER button.

The "SUB. PICTURE" screen appears.

Adjust the items.



### Information

### **■ SUB. PICTURE Function**

- \* Loss of the input signal means a condition in which the video signal and the sync signal are not present.
- \* Under conditions in which the sub screen has disappeared, the ZOOM NAV, PIC FREEZE, and SEAMLESS SW functions will not work. The WIDE button will not function either.

### ■ SUB. P DETECT setting

AUTO: The black frame disappears 3 seconds after the input signal is lost.

OFF: Turns off the SUB. PICTURE function.

### **■ DISPLAY setting**

NORMAL: The sub screen is displayed consistently.

FADE: The sub screen fades in.

### ■ SUB. P RATE setting

Set the transparency of the sub screen.

# Displaying the entire image during DIGITAL ZOOM operations

Use this function to display the entire image within the sub screen together with an enlarged image on the main screen.

Example: Setting "ZOOM NAV" to "S BY S"

On "ZOOM NAV" of "OPTION4" menu, select "S BY S".



### Information

### **■ ZOOM NAV Function**

- \* This feature does not function during split screen mode.
- \* This feature does not function while PIC FREEZE is operating.
- \* Providing a 2-screen display will cancel this function.

### **■ ZOOM NAV settings**

OFF: Will not show the entire image on the sub screen.

S BY S: Will show the entire image on the sub screen

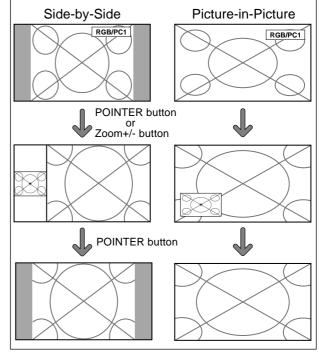
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BTM LFT~TOP LFT: Will show the entire image on the sub screen of picture-in-picture mode.

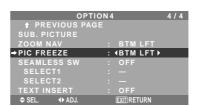


### Displaying still images in the sub screen

This feature enables display in the sub screen of still images captured by pressing the SELECT/FREEZE button.

Example: Setting "PIC FREEZE" to "BTM LFT"

On "PIC FREEZE" of "OPTION4" menu, select "BTM LFT".



### Information

### **■ PIC FREEZE Function**

- \* This feature does not function during split screen mode.
- \* Digital zoom is not available while this function is operating.
- \* A further press of the SELECT/FREEZE button while this function is operating will cancel this function.
- \* Providing a 2-screen display will cancel this function.

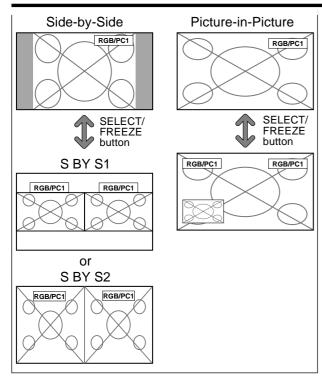
### **■ PIC FREEZE settings**

OFF: Will not show the still image.

S BY S1, 2: The still images captured by pressing the SELECT/FREEZE button will be shown on the sub screen of side-by-side mode.

BTM LFT~TOP LFT: The still images captured by pressing the SELECT/FREEZE button will be shown on the sub screen of picture-in-picture mode.

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### Switching the input source quickly

This feature enables quick input selection.

After setting ON, press the CLEAR/SEAMLESS SW button for quick switching between the two selected input signals.

Example: Set to switch quickly between RGB1 and RGB2.

On "SEAMLESS SW" of "OPTION4" menu, select "ON". Select "RGB1" and "RGB2".



\* The available sources depend on the settings of input.

### Information

### **■ SEAMLESS SW Function**

- \* This feature will not function for certain input combinations. See the table on page En-15.
- \* After switching to the selected input, please operate this function.
- \* This feature will not function during split screen mode.
- \* When SEAMLESS SW is first turned on, or when signals being transmitted are changed, there may be a slight delay due to signal analysis.

### **■ SEAMLESS SW settings**

OFF: Turns off the SEAMLESS SW function.

ON: When the CLEAR/SEAMLESS SW button is pressed, input signals will switch quickly according to the setting of SELECT1 and SELECT2.

### Displaying the information as a text

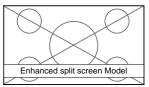
Example: Setting "TEXT INSERT" to "BOTTOM", "INPUT" to "RGB1", "PIC. RATE" to "100%" and "DISPLAY" to "NORMAL"

On "TEXT INSERT" of "OPTION4" menu, select "BOTTOM", then press the MENU/ENTER button.

The "TEXT INSERT" screen appears.

Adjust the items.





### Information

### **■ TEXT INSERT setting**

OFF: Displays no text.

TOP/MID HIGH/MID LOW/BOTTOM: Displays a text at the specified location.

### **■ INPUT setting**

Sets the input of the text to the RGB1 to 3.

### ■ PIC. RATE setting

Sets the transparency of the text.

### DISPLAY setting

NORMAL: The sub screen is displayed consistently.

FADE: The sub screen fades in.

### **Advanced OSM Settings Menu**

### Setting the menu mode

This allows you to access the complete menu.

When P. ON DELAY or PLE LINK is ON, this won't be turned OFF.

Example: Setting "ON"

On "ADVANCED OSM" of "MAIN MENU", select "ON".



### Information

### ■ ADVANCED OSM settings

ON: All of the main menu items are available for advanced users.

OFF: Some of the main menu items are not available (e.g. OPTION2, OPTION3 and OPTION4).

### Language Settings Menu

### Setting the language for the menus

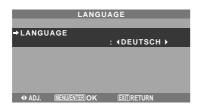
The menu display can be set to one of 11 languages.

Example: Setting the menu display to "DEUTSCH"

On "MAIN MENU", select "LANGUAGE", then press the MENU/ENTER button.

The "LANGUAGE" screen appears.

On "LANGUAGE", select "DEUTSCH", then press the MENU/ENTER button.



The "LANGUAGE" is set to "DEUTSCH" and return to the main menu.

# Information ■ Language settings ENGLISH ...... English DEUTSCH ..... German FRANÇAIS ..... French ESPAÑOL .... Spanish ITALIANO .... Italian SVENSKA .... Swedish 中文 ..... Chinese PYCCKИЙ .... Russian TÜRKÇE .... Turkish E∧ΛΗΝΙΚΑ ... Greek PORTUGUÊS .... Portuguese

### **Color System Settings Menu**

### Setting the video signal format

Use these operations to set the color systems of composite video signals or Y/C input signals.

Example: Setting the color system to "3.58 NTSC"

On the MAIN MENU, select "COLOR SYSTEM", then press the MENU/ENTER button.

The "COLOR SYSTEM" screen appears.

On "COLOR SYSTEM", select "3.58NTSC".



### Information

### ■ Video signal formats

Different countries use different formats for video signals. Set to the color system used in your current country.

AUTO: The color systems are automatically identified and the format is set accordingly.

PAL: This is the standard format used mainly in the United Kingdom and Germany.

SECAM: This is the standard format used mainly in France and Russia.

4.43 NTSC, PAL60: This format is used for videos in countries using PAL and SECAM video signals.

3.58 NTSC: This is the standard format used mainly in the United States and Japan.

PAL-M: This is the standard format used mainly in Brazil.

PAL-N: This is the standard format used mainly in Argentina.

### Source Information Menu

# Checking the frequencies, polarities of input signals, and resolution

Use this function to check the frequencies and polarities of the signals currently being input from a computer, etc.

On "MAIN MENU", select "SOURCE INFORMATION", then press the MENU/ENTER button.

The "SOURCE INFORMATION" is displayed.



- PC: MEMORY will be displayed.
Others: MODE will be displayed.

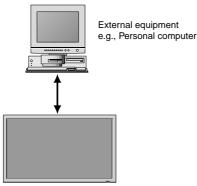
# External Control Pin Assignments

### **Application**

These specifications cover the communications control of the plasma monitor by external equipment.

### **Connections**

Connections are made as described below.



Display

Connector on the plasma monitor side: EXTERNAL CONTROL connector.

Use a crossed (reverse) cable.

### Type of connector: D-Sub 9-pin male

Pin No.	Pin Name	Pin No.	Pin Name
1	No Connection		DSR (DCE side ready)
2	RXD (Receive data)	7	RTS (Ready to send)
	TXD (Transmit data)	8	CTS (Clear to send)
4	DTR (DTE side ready)	9	No connection
5	GND		



### **Communication Parameters**

(1) Communication system
(2) Interface
(3) Baud rate
(4) Data length
(5) Parity
(6) Stop bit
(7) Communication code

Asynchronous
RS-232C
9600 bps
8 bits
Odd
1 bit
Hex

### **External Control Codes (Reference)**

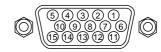
FUNCTION Power ON OFF		CODI 9FH 9FH	E DATA 80H 80H	60H 60H	4EH 4FH	00H 00H	CDH CEH			
Input Switch	Video1 (BNC) Video2 (RCA) Video3 (S-Video) DVD1/HD1 (RCA) DVD2/HD2 (BNC) RGB1 (mini D-Sub 15-Pin) RGB2 (5BNC) RGB3 (DVI)	DFH DFH DFH DFH DFH DFH DFH DFH	80H 80H 80H 80H 80H 80H 80H	60H 60H 60H 60H 60H 60H 60H	47H 47H 47H 47H 47H 47H 47H 47H	01H 01H 01H 01H 01H 01H 01H	01H 02H 03H 05H 06H 07H 08H 0CH	08H 09H 0AH 0CH 0DH 0EH 0FH 13H		
Audio Mute	ON OFF	9FH 9FH	80H 80H	60H 60H	3EH 3FH	00H 00H	BDH BEH			
Picture Mode	NORMAL THEAT. 1 THEAT. 2 DEFAULT BRIGHT	DFH DFH DFH DFH DFH	80H 80H 80H 80H 80H	60H 60H 60H 60H 60H	OAH OAH OAH OAH OAH	01H 01H 01H 01H 01H	01H 02H 03H 04H 05H	CBH CCH CDH CEH CFH		
Screen Mode	STADIUM ZOOM NORMAL FULL 14:9 2.35:1	DFH DFH DFH DFH DFH DFH	80H 80H 80H 80H 80H 80H	60H 60H 60H 60H 60H	51H 51H 51H 51H 51H 51H	01H 01H 01H 01H 01H 01H	02H 03H 04H 05H 09H 0AH	13H 14H 15H 16H 1AH 1BH		
Auto Picture	ON OFF	DFH DFH	80H 80H	60H 60H	7FH 7FH	03H 03H	03H 03H	09H 09H	00H 01H	4DH 4EH
Cinema Mode	ON OFF	DFH DFH	80H 80H	60H 60H	C1H C1H	01H 01H	01H 02H	82H 83H		

**Note:** Contact your local dealer for a full list of the External Control Codes if needed.

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# mini D-Sub 15-pin connector (Analog)

### RGB 1



Pin No.	Signal (Analog)						
1	Red						
2	Green or sync-on-green						
3	Blue						
4	No connection						
5	Ground						
6	Red ground						
7	Green ground						
8	Blue ground						
9	No connection						
10	Sync signal ground						
11	No connection						
12	Bi-directional DATA (SDA)						
13	Horizontal sync or Composite sync						
14	Vertical sync						
15	Data clock						

### **DVI-D 24-pin connector (Digital)**

The unit is equipped with a type of connector commonly used for digital.

(This cannot be used for an analog input.) (TMDS can be used for one link only.)

### RGB 3



Pin No.	Signal (Digital)
1	T.M.D.S Data 2 -
2	T.M.D.S Data 2 +
3	T.M.D.S Data 2 Shield
4	No connection
5	No connection
6	DDC Clock
7	DDC Data
8	No connection
9	T.M.D.S Data 1 -
10	T.M.D.S Data 1 +
11	T.M.D.S Data 1 Shield
12	No connection
13	No connection
14	+5V Power
15	Ground
16	Hot Plug Detect
17	T.M.D.S Data 0 -
18	T.M.D.S Data 0 +
19	T.M.D.S Data 0 Shield
20	No connection
21	No connection
22	T.M.D.S Clock Shield
23	T.M.D.S Clock +
24	T.M.D.S Clock -

# **Troubleshooting**

If the picture quality is poor or there is some other problem, check the adjustments, operations, etc., before requesting service.

Symptom	Checks	Remedy			
The unit emits a crackling sound.	Are the image and sound normal?	If there are no abnormalities in the image and sound, the noise is caused by the cabinet reacting to changes in temperature. This will not affect performance.			
Picture is disturbed. Sound is noisy. Remote control operates erroneously.	Is a connected component set directly in front or at the side of the display?	Leave some space between the display and the connected components.			
The remote control does not work.	Are the remote control's batteries worn out?	Replace both batteries with new ones.			
	Is IR REMOTE set to ON?	Set IR REMOTE OFF on OPTION3 menu.			
	Has an ID number been set for the main unit?	Set an ID number with the ID SELECT button, or set the ID number to ALL.			
Monitor's power does not turn on when the remote control's power button is pressed.	Is the monitor's power cord plugged into a power outlet?	Plug the monitor's power cord into a power outlet.			
	Are all the monitor's indicators off?	Press the power button on the monitor to turn on the power.			
	Are the remote control's batteries worn out?	Replace both batteries with new ones.			
	Is IR REMOTE set to OFF?	Set IR REMOTE ON.			
	Has an ID number been set for the main unit?	Set an ID number with the ID SELECT button, or set the ID number to ALL.			
Monitor does not operate when the remote control's buttons are pressed.	Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor?	Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.			
	Is direct sunlight or strong artificial light shining on the monitor's remote control sensor?	Eliminate the light by closing curtains, pointing the light in a different direction, etc.			
	Are the remote control's batteries worn out?	Replace both batteries with new ones.			
	The remote cable is plugged into the REMOTE IN terminal (Wired).	Unplug the remote cable from the monitor.			
The front panel buttons of the main unit do not function.	The front panel buttons do not function during Control Lock.	Set the Control Lock to OFF.			
No sound or picture is produced.	Is the monitor's power cord plugged into a power outlet?	Plug the monitor's power cord into a power outlet.			
Picture appears but no sound is produced.	Is the volume set at the minimum?	Increase the volume.			
	• Is the mute mode set?	Press the remote control's MUTE button.			
	Are the speakers properly connected?	Connect the speakers properly.			
D 11 11 11 11 11 11 11 11 11 11 11 11 11	Is AUDIO INPUT set correctly?	Set AUDIO INPUT on the AUDIO menu correctly.			
Poor picture with VIDEO signal input.	Improper control setting. Local interference. Cable interconnections. Input impedance is not correct level.	Adjust picture control as needed.  Try another location for the monitor.  Be sure all connections are secure.			
Poor picture with RGB signal input.	Improper control setting.     Incorrect 15 PIN connector pin connections.	Adjust picture controls as needed. Check pin assignments and connections.			
Tint is poor or colors are weak.	Are the tint and colors properly adjusted?	Adjust the tint and color (under PICTURE).			
Nothing appears on screen.	Is the computer's power turned on?	Turn on the computer's power.			
	• Is a source connected?	Connect source to the monitor.			
	Is the power management function in the standby or off mode?	Operate the computer (move the mouse, etc.).			
	• Is LOOP OUT set to ON?	• Set LOOP OUT OFF.			
Part of picture is cut off or picture is not centered.	Is the position adjustment appropriate?	Adjust the IMAGE ADJUST properly.			
Image is too large or too small.	Is the screen size adjustment appropriate?	Press the WIDE button on the remote control and adjust properly.			
Picture is unstable.	Is the computer's resolution setting appropriate?	Set to the proper resolution.			
POWER/STANDBY indicator is lighted in red.	Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.	Check the input signal.			
POWER/STANDBY indicator is blinking in red.	The temperature inside the main unit has become too high and has activated the protector.	Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.			
POWER/STANDBY indicator is blinking in green and red, or green.		• Prompty switch off the power of the main unit. See *2.			

<sup>\*1</sup> Overheat protector

If the monitor becomes too hot, the overheat protector will be activated and the monitor will be turned off. If this happens, turn off the power to the monitor and unplug the power cord. If the room where the monitor is installed is particularly hot, move the monitor to a cooler location and wait for the monitor to cool for 60 minutes. If the problem persists, contact your dealer.

<sup>\*2</sup> In the following case, power off the monitor immediately and contact your dealer or authorized Service Center.

The monitor turns off 5 seconds after powering on and then the POWER/STANDBY indicator blinks. It indicates that the power supply circuit, plasma display panel, temperature sensor, or one or more fans have been damaged.

# **Table of Signals Supported**

### **Supported resolution (42XM4)**

- When the screen mode is NORMAL, each signal is converted to a 768 dots × 768 lines signal. (Except for \*2,4)
- When the screen mode is FULL, each signal is converted to a  $1024 \text{ dots} \times 768 \text{ lines signal}$ .

### Computer input signals supported by this system

	D-4 !!	Vertical	Horizontal	Sync Po	Sync Polarity		Presence		Screen mode			
Model Signal Type	Dots × lines	frequency (Hz)	frequency (kHz)	Horizontal	Vertical	Horizontal	Vertical	NORMAL (4:3)	FULL (16:9)	select*5	DVI	Memory
NEC PC-9800	640×400	70.1	31.5	NEG	NEG	YES	YES	YES*2	YES		NO	4
	720×400	70.1	31.5	NEG	NEG	YES	YES		YES	720×400	YES	82
	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	640×480	YES	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES		YES	7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	640×480	YES	8
		85.0	43.3	NEG	NEG	YES	YES	YES	YES		YES	9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES		YES	41
		120.4	61.3	NEG	NEG	YES	YES	YES	YES		YES	42
	720×400	85.1	37.9	NEG	POS	YES	YES		YES		YES	73
	848×480	60.0	31.0	POS	POS	YES	YES		YES	848×480	YES	19
	852×480*1	60.0	31.7	NEG	NEG	YES	YES		YES	852×480	YES	17
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	800×600	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	800×600	YES	12
		72.2	48.1	POS	POS	YES	YES	YES	YES		YES	13
		75.0	46.9	POS	POS	YES	YES	YES	YES		YES	14
		85.1	53.7	POS	POS	YES	YES	YES	YES		YES	15
		99.8	63.0	POS	POS	YES	YES	YES	YES		YES	43
		120.0	75.7	POS	POS	YES	YES	YES	YES		YES	44
IBM PC/AT*8	1024×768	60.0	48.4	NEG	NEG	YES	YES	YES	YES*3	1024×768	YES	24
compatible	10247700	70.1	56.5	NEG	NEG	YES	YES	YES	YES*3		YES	25
computers		75.0	60.0	POS	POS	YES	YES	YES	YES*3	1024×768	YES	26
		85.0	68.7			1		YES	YES*3		l	27
		100.6	80.5	POS	POS	YES	YES	l .	YES*3		YES	45
	1150 × 964			NEG	NEG	YES	YES	YES			YES	
	1152×864	75.0	67.5	POS	POS	YES	YES	YES	YES	1152×864	YES	51
	1280×768	56.2	45.1	POS	POS	YES	YES		YES	1280×768	YES	52
		59.8	48.0	POS	NEG	YES	YES		YES	1280×768	YES	80
	1280×768*9	69.8	56.0	NEG	POS	YES	YES		YES	1280×768		66
	1280×800*9	60.0	49.7	NEG	NEG	YES	YES		YES	1280×800	YES	21
	1280×854*9	60.0	53.1	NEG	NEG	YES	YES		YES	1280×854	YES	37
	1280×960	60.0	60.0	POS	POS	YES	YES	YES	YES		YES	63
	1360×765	60.0	47.7	POS	POS	YES	YES		YES	1360×765	NO	22
	1360×768	60.0	47.7	POS	POS	YES	YES		YES	1360×768	YES	22
	1376×768	59.9	48.3	NEG	POS	YES	YES		YES	1376×768	YES	53
	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*4	YES	1280×1024	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*4	YES		YES	30
		85.0	91.1	POS	POS	YES	YES	YES*4	YES		YES	40
		100.1	108.5	POS	POS	YES	YES	YES*4	YES		NO	47
	1680×1050*9	60.0	65.3	NEG	NEG	YES	YES		YES	1680×1050	YES	38
	1600×1200	60.0	75.0	POS	POS	YES	YES	YES	YES		YES	54
		65.0	81.3	POS	POS	YES	YES	YES	YES		NO	55
		70.0	87.5	POS	POS	YES	YES	YES	YES		NO	56
		75.0	93.8	POS	POS	YES	YES	YES	YES		NO	57
		85.0	106.3	POS	POS	YES	YES	YES	YES		NO	58
	1920×1200*9	60.0	74.6	NEG	NEG	YES	YES		YES	1920×1200		81
	1920×1200RB*9	60.0	74.0	NEG	NEG	YES	YES		YES	1920×1200	YES	88
Apple	640×480	66.7	35.0	Sync on G	Sync on G			YES	YES		NO	6
Macintosh*6,8	832×624	74.6	49.7	Sync on G	Sync on G			YES	YES		NO	16
aon itoon	1024×768	74.9	60.2	Sync on G	Sync on G			YES	YES*3	1024×768	NO	28
	1152×870	75.1	68.7	Sync on G	Sync on G			YES	YES	1152×870	NO	39
	1440×900*9	60.0	56.0	NEG	NEG	YES	YES		YES		YES	89
Work Station	1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*4	YES		YES	29
(EWS4800)*8	1200 / 1024	71.2	75.1					YES*4				48
Work Station (HP)*8	1200 × 1024			NEG	NEG	YES	YES		YES		YES	59
, ,	1280×1024	72.0	78.1					YES*4	YES		YES	
Work Station	1152×900	66.0	61.8	C Sync	C Sync			YES	YES		YES	60
(SUN)*8	4000:::455	76.0	71.7	C Sync	C Sync			YES	YES		YES	61
I	1280×1024	76.1	81.1	C Sync	C Sync			YES*4	YES		YES	30

	Vertical Horizontal Sync Polarity		olarity	Presei	псе	Screen	mode	RGB				
Model	Dots × lines	frequency	frequency	Horizontal	Vertical	Horizontal	Vertical	NORMAL	FULL	select*5	DVI	Memory
Signal Type		(Hz)	(kHz)					(4:3)	(16:9)			
Work Station	1024×768	60.0	49.7					YES	YES*3		YES	62
(SGI)	1280×1024	60.0	63.9					YES*4	YES		YES	29
IDC-3000G												
PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*7	YES*7		NO	31
NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*7	YES*7	640×480	NO	32
·	1152×864	60.0	53.7	POS	NEG	YES	YES	YES	YES	1152×864	YES	84
		72.0	64.9	POS	NEG	YES	YES	YES	YES		YES	85
	1400×1050	60.0	65.3	NEG	POS	YES	YES	YES	YES		YES	65
		75.0	82.3	NEG	POS	YES	YES	YES	YES		YES	71
		85.0	93.9	NEG	POS	YES	YES	YES	YES		NO	72

- \*1 Only when using a graphic accelerator board that is capable of displaying 852×480.
- \*2 Display only 640 lines with the screen center of the vertical orientation located at the center.
- \*3 The picture is displayed in the original resolution. The picture will be compressed for other signals.
- \*4 Aspect ratio is 5:4. This signal is converted to a 720 dots × 768 lines signal.
- \*5 Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.
- \*6 To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port.
- \*7 Other screen modes (ZOOM and STADIUM) are available as well.
- \*8 When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy). If this occurs, please set the refresh rate of the external equipment to 60Hz.
- \*9 CVT standard compliant.

### NOTE:

- While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- This monitor has a resolution of 1024 dots × 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
- With digital input some signals are not accepted.
- The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
- If you are connecting a composite sync signal, use the HD terminal.

### What is HDCP/HDCP technology?

HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI).

If you are unable to view material via the DVI input, this does not necessarily mean the PDP is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

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- "Apple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

# Supported resolution (50XM5/61XM4) When the screen mode is NORMAL, each signal is converted to a 1024 dots × 768 lines signal. (Except for \*2.3.4) When the screen mode is TRUE, the picture is displayed in the original resolution. When the screen mode is FULL, each signal is converted to a 1365 dots × 768 lines signal. (Except for \*3) Computer input signals supported by this system

Model Signal Type  NEC PC-9800	640×400 720×400	Vertical frequency (Hz)	Horizontal frequency (kHz)	Sync Po Horizontal	Vertical	Prese Horizontal	Vertical	NORMAL	reen mo	FULL	RGB select*5	DVI	Momoni
	640×400 720×400	` '	(kHz)							_		D	Memory
NEC PC-9800	720×400	70 1	• ,					(4:3)		(16:9)			
			31.5	NEG	NEG	YES	YES	YES*2	YES	YES		NO	4
		70.1	31.5	NEG	NEG	YES	YES		YES	YES	720×400	YES	82
	640×480	59.9	31.5	NEG	NEG	YES	YES	YES	YES	YES	640×480	YES	5
		72.8	37.9	NEG	NEG	YES	YES	YES	YES	YES		YES	7
		75.0	37.5	NEG	NEG	YES	YES	YES	YES	YES	640×480	YES	8
<i>i</i>		85.0	43.3	NEG	NEG	YES	YES	YES	YES	YES		YES	9
		100.4	51.1	NEG	NEG	YES	YES	YES	YES	YES		YES	41
L		120.4	61.3	NEG	NEG	YES	YES	YES	YES	YES		YES	42
L	720×400	85.1	37.9	NEG	POS	YES	YES		YES	YES		YES	73
<u> </u>	848×480	60.0	31.0	POS	POS	YES	YES		YES	YES	848×480	YES	19
<u> </u>	852×480*1	60.0	31.7	NEG	NEG	YES	YES		YES	YES	852×480	YES	17
	800×600	56.3	35.2	POS	POS	YES	YES	YES	YES	YES	800×600	YES	11
		60.3	37.9	POS	POS	YES	YES	YES	YES	YES	800×600	YES	12
		72.2	48.1	POS	POS	YES	YES	YES	YES	YES		YES	13
		75.0	46.9	POS	POS	YES	YES	YES	YES	YES		YES	14
		85.1	53.7	POS	POS	YES	YES	YES	YES	YES		YES	15
		99.8	63.0	POS	POS	YES	YES	YES	YES	YES		YES	43
l		120.0	75.7	POS	POS	YES	YES	YES	YES	YES		YES	44
	1024×768	60.0	48.4	NEG	NEG	YES	YES	YES*3		YES	1024×768	YES	24
compatible		70.1	56.5	NEG	NEG	YES	YES	YES*3		YES		YES	25
computers		75.0	60.0	POS	POS	YES	YES	YES*3		YES	1024×768	YES	26
		85.0	68.7	POS	POS	YES	YES	YES*3		YES		YES	27
		100.6	80.5	NEG	NEG	YES	YES	YES*3		YES		YES	45
	1152×864	75.0	67.5	POS	POS	YES	YES	YES		YES	1152×864	YES	51
	1280×768	56.2	45.1	POS	POS	YES	YES			YES	1280×768	YES	52
		59.8	48.0	POS	NEG	YES	YES			YES	1280×768	YES	80
.	1280×768*9	69.8	56.0	NEG	POS	YES	YES			YES	1280×768	YES	66
	1280×800*9	60.0	49.7	NEG	NEG	YES	YES			YES	1280×800	YES	21
·	1280×854*9	60.0	53.1	NEG	NEG	YES	YES			YES	1280×854	YES	37
	1280×960	60.0	60.0	POS	POS	YES	YES	YES		YES		YES	63
	1360×765	60.0	47.7	POS	POS	YES	YES			YES*3	1360×765	NO	22
	1360×768	60.0	47.7	POS	POS	YES	YES			YES*3	1360×768	YES	22
l —	1376×768	59.9	48.3	NEG	POS	YES	YES			YES	1376×768	YES	53
I ⊢	1280×1024	60.0	64.0	POS	POS	YES	YES	YES*4		YES	1280×1024	YES	29
		75.0	80.0	POS	POS	YES	YES	YES*4		YES		YES	30
		85.0	91.1	POS	POS	YES	YES	YES*4		YES		YES	40
		100.1	108.5	POS	POS	YES	YES	YES*4		YES		NO	47
1	1680×1050*9	60.0	65.3	NEG	NEG	YES	YES			YES	1680×1050	YES	38
I -	1600×1000	60.0	75.0	POS	POS	YES	YES	YES		YES		YES	54
	1000 × 1200	65.0	81.3	POS	POS	YES	YES	YES		YES			55
		70.0	87.5	POS	POS	YES	l	YES		YES		NO	56
		75.0	93.8			YES	YES	YES		YES		NO	57
				POS	POS	1	YES					NO	58
	1920×1200*9	85.0	106.3	POS	POS	YES	YES	YES		YES	1000 × 1000	NO	81
I –		60.0	74.6	NEG	NEG	YES	YES			YES	1920×1200		-
	1920×1200RB*9	60.0	74.0	NEG	NEG	YES	YES	 VEC		YES	1920×1200	YES	88
Apple	640×480	66.7	35.0	Sync on G	Sync on G			YES	YES	YES		NO	6
Macintosh*6,8	832×624	74.6	49.7	Sync on G	Sync on G			YES	YES	YES		NO	16
<u> </u>	1024×768	74.9	60.2	Sync on G	Sync on G			YES*3		YES	1024×768	NO	28
I ⊨	1152×870	75.1	68.7	Sync on G	Sync on G			YES		YES	1152×870	NO	39
	1440×900*9	60.0	56.0	NEG	NEG	YES	YES			YES		YES	89
	1280×1024	60.0	64.6	NEG	NEG	YES	YES	YES*4		YES		YES	29
(EWS4800)*8		71.2	75.1	NEG	NEG	YES	YES	YES*4		YES		YES	48
	1280×1024	72.0	78.1					YES*4		YES		YES	59
Work Station	1152×900	66.0	61.8	C Sync	C Sync			YES		YES		YES	60
(SUN)*8		76.0	71.7	C Sync	C Sync			YES		YES		YES	61
Γ	1280×1024	76.1	81.1	C Sync	C Sync			YES*4		YES		YES	30

		Data v linas	Vertical	Horizontal	Sync Po	olarity	Prese	nce	Sci	een mo	de	RGB		
	Model	Dots × lines	frequency	frequency	Horizontal	Vertical	Horizontal	Vertical	NORMAL	TRUE	FULL	select*5	DVI	Memory
	Signal Type		(Hz)	(kHz)					(4:3)		(16:9)			
W	ork Station	1024×768	60.0	49.7					YES*3		YES		YES	62
(S	GI)	1280×1024	60.0	63.9					YES*4		YES		YES	29
ID	C-3000G													
	PAL625P	768×576	50.0	31.4	NEG	NEG	YES	YES	YES*7		YES*7		NO	31
	NTSC525P	640×480	59.9	31.5	NEG	NEG	YES	YES	YES*7		YES*7	640×480	NO	32
		1152×864	60.0	53.7	POS	NEG	YES	YES	YES		YES	1152×864	YES	84
			72.0	64.9	POS	NEG	YES	YES	YES		YES		YES	85
		$1400 \times 1050$	60.0	65.3	NEG	POS	YES	YES	YES		YES		YES	65
			75.0	82.3	NEG	POS	YES	YES	YES		YES		YES	71
			85.0	93.9	NEG	POS	YES	YES	YES		YES		NO	72

<sup>\*1</sup> Only when using a graphic accelerator board that is capable of displaying 852×480.

### NOTE:

- While the input signals comply with the resolution listed in the table above, you may have to adjust the position and size of the picture or the fine picture because of errors in synchronization of your computer.
- When a 1280 dots  $\times$  1024 lines signal or 1600 dots  $\times$  1200 lines signal is input to the monitor, the picture will be compressed.
- This monitor has a resolution of 1365 dots × 768 lines. It is recommended that the input signal should be XGA, wide XGA, or equivalent.
- With digital input some signals are not accepted.
- The sync may be disturbed when a nonstandard signal other than the aforementioned is input.
- If you are connecting a composite sync signal, use the HD terminal.

### What is HDCP/HDCP technology?

HDCP is an acronym for High-bandwidth Digital Content Protection. High bandwidth Digital Content Protection (HDCP) is a system for preventing illegal copying of video data sent over a Digital Visual Interface (DVI).

If you are unable to view material via the DVI input, this does not necessarily mean the PDP is not functioning properly. With the implementation of HDCP, there may be cases in which certain content is protected with HDCP and might not be displayed due to the decision/intention of the HDCP community (Digital Content Protection, LLC).

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<sup>\*2</sup> This signal is converted to a 1024 dots  $\times$  640 lines signal.

<sup>\*3</sup> The picture is displayed in the original resolution.

<sup>\*4</sup> Aspect ratio is 5:4. This signal is converted to a 960 dots × 768 lines signal.

<sup>\*5</sup> Normally the RGB select mode suite for the input signals is set automatically. If the picture is not displayed properly, set the RGB mode prepared for the input signals listed in the table above.

<sup>\*6</sup> To connect the monitor to Macintosh computer, use the monitor adapter (D-Sub 15-pin) to your computer's video port.

<sup>\*7</sup> Other screen modes (ZOOM and STADIUM) are available as well.

<sup>\*8</sup> When viewing a moving picture at a vertical frequency greater than 65Hz, the picture may sometimes be unstable (jumpy). If this occurs, please set the refresh rate of the external equipment to 60Hz.

<sup>\*9</sup> CVT standard compliant.

# **Specifications**

### **42XM4**

Screen Size	922(H)×515(V) mm
	$36.3"(H) \times 20.3"(V)$ inches
	diagonal 42"
Aspect Ratio	16:9
Resolution	1024(H)×768(V) pixels
Pixel Pitch	$0.9(H) \times 0.671(V) \text{ mm}$
	$0.036"(H) \times 0.027"(V)$ inches
Color Processing	4,096 steps, 68.7 billion colors
Signals	
Synchronization Range	Horizontal: 15.5 to 110.0 kHz
	(automatic : step scan)
	Vertical: 50.0 to 120.0 Hz
	(automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
	PAL60, SECAM, HD*1, DVD*1, DTV*1
Input Terminals (VIDEO1 and	RGB1 can also be used as OUTPUT terminals)

	(automatic . step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
	PAL60, SECAM, HD*1, DVD*1, DTV*1
Input Terminals (VIDEO1 and	RGB1 can also be used as OUTPUT terminals)
RGB	
Visual 1 (Analog)	mini D-sub 15-pin×1
Visual 2 (Analog)	BNC (R, G, B, HD, DV) $\times 1^{*2}$
Visual 3 (Digital)	DVI-D 24-pin $\times$ 1*3
Video	
Visual 1	BNC×1
Visual 2	$RCA$ -pin $\times 1$
Visual 3	S-Video: DIN 4-pin $\times$ 1
DVD/HD	
Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr) $\times 1^{*1}$
Visual 2	BNC (Y, Cb/Pb, Cr/Pr) $\times 1^{*1,*2}$
Visual 3	DVI-D 24-pin $\times 1^{*3}$
Audio	Stereo RCA × 3(Selectable)
<b>External Control</b>	D-sub 9-pin $\times$ 1(RS-232C)
Sound output	8W+8W at 6 ohm
Power Supply	AC100-240V 50/60Hz
Current Rating	4.5A (maximum)
Power Consumption	285W (typical)
Dimensions	1022 (W)×610 (H)×98(D) mm

### **Environmental Considerations**

Weight

Operating Temperature  $0^{\circ}$ C to  $40^{\circ}$ C /  $32^{\circ}$ F to  $104^{\circ}$ F Humidity 20 to 80% (no condensation) Altitude 720 to 1114 hPa (0 to 2800 m / 0 to 9180 feet) Storage

Temperature -10°C to 50°C / 14°F to 122°F 10 to 90% (no condensation) Humidity Altitude 700 to 1114 hPa (0 to 3000 m / 0 to 9840 feet)

### Other Features

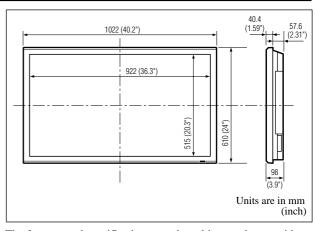
Motion compensated 3D Scan Converter (NTSC, PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 4-25 multi screen, Self Diagnosis, Image Burn reduction tools (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only), Split screen operations

 $40.2 \text{ (W)} \times 24 \text{ (H)} \times 3.9 \text{ (D)}$  inches

30 kg / 66 lbs (without stand)

### Regulations

IEC60950-1, EN60950-1, EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR22 class B



The features and specifications may be subject to change without notice.

*1 HD/DVD/DTV i	nput signals support	ed on this system.	
480P (60 Hz)	480I (60 Hz)	525P (60 Hz)	
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)	
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)	
720P (50 Hz)	1035I (60 Hz)	1080I (50 Hz)	
1080I (60 Hz)	1080P (50 Hz)	1080P (60 Hz)	

\*2 The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".

\*3 Compatible with HDCP.

### Supported Signals

- 640 × 480P @ 59.94/60Hz
- 1920 × 1080I @ 50Hz
- 1280 × 720P @ 59.94/60Hz
- 720 × 576P @ 50Hz
- 1920 × 1080I @ 59.94/60Hz
- 1280 × 720P @ 50Hz
- 720 × 480P @ 59.94/60Hz

Note: In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc...). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

# **Specifications**

### **50XM5**

43.5"(H) × 24.5"(V) inches diagonal 50" 16:9
16:9
$1365(H) \times 768(V)$ pixels
$0.81(H) \times 0.81(V) \text{ mm}$
$0.032"(H) \times 0.032"(V)$ inches
4,096 steps, 68.7 billion colors
Horizontal: 15.5 to 110.0 kHz
(automatic : step scan)
Vertical: 50.0 to 120.0 Hz
(automatic : step scan)
RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
PAL60, SECAM, HD*1, DVD*1, DTV*1

put Terminals (VIDEO1 and RGB1 can also be used as OUTPUT terminals)							
RGB							
mini D-sub 15-pin×1							
BNC (R, G, B, HD, VD) $\times 1^{*2}$							
DVI-D 24-pin $\times$ 1*3							
BNC×1							
RCA-pin×1							
S-Video: DIN 4-pin×1							
RCA-pin (Y, Cb/Pb, Cr/Pr) $\times 1^{*1}$							

$\begin{array}{c c} Visual 2 \\ Visual 3 \\ \hline \textbf{Audio} \\ \hline \textbf{External Control} \\ \hline \textbf{Power Supply} \\ \hline \textbf{Current Rating} \\ \hline \textbf{Dimensions} \\ \hline \\ \hline \textbf{Sinch Povisor Stand Power Supply} \\ \hline \textbf{Act } (Y, Cb/Pb, Cr/Pr) \times 1^{*1,*2} \\ \hline \textbf{DVI-D } 24-pin \times 1^{*3} \\ \hline \textbf{Audio} \\ \hline \textbf{Stereo } RCA \times 3 \text{ (Selectable)} \\ \hline \textbf{D-sub } 9-pin \times 1 \text{ (RS-232C)} \\ \hline \textbf{Sound output} \\ \hline \textbf{9W+9W at 6 ohm} \\ \hline \textbf{ACt } 100-240V \text{ 50/60Hz} \\ \hline \textbf{Current Rating} \\ \hline \textbf{7.6A } (maximum) \\ \hline \textbf{435W } (typical) \\ \hline \textbf{Dimensions} \\ \hline \textbf{1222 } (W) \times 736 \text{ (H)} \times 96 \text{(D) } mm \\ \hline \textbf{48.1 } (W) \times 30 \text{ (H)} \times 3.8 \text{ (D) inches} \\ \hline \end{array}$	Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr) $\times$ 1*1
Audio         Stereo RCA × 3 (Selectable)           External Control         D-sub 9-pin × 1 (RS-232C)           Sound output         9W+9W at 6 ohm           Power Supply         AC100-240V 50/60Hz           Current Rating         7.6A (maximum)           Power Consumption         435W (typical)           Dimensions         1222 (W)×736 (H)×96(D) mm	Visual 2	BNC (Y, Cb/Pb, Cr/Pr) $\times 1^{*1,*2}$
External Control         D-sub 9-pin × 1 (RS-232C)           Sound output         9W+9W at 6 ohm           Power Supply         AC100-240V 50/60Hz           Current Rating         7.6A (maximum)           Power Consumption         435W (typical)           Dimensions         1222 (W)×736 (H)×96(D) mm	Visual 3	DVI-D 24-pin $\times$ 1*3
Sound output         9W+9W at 6 ohm           Power Supply         AC100-240V 50/60Hz           Current Rating         7.6A (maximum)           Power Consumption         435W (typical)           Dimensions         1222 (W)×736 (H)×96(D) mm	Audio	Stereo RCA × 3 (Selectable)
Power Supply         AC100-240V 50/60Hz           Current Rating         7.6A (maximum)           Power Consumption         435W (typical)           Dimensions         1222 (W)×736 (H)×96(D) mm	External Control	D-sub 9-pin×1 (RS-232C)
Current Rating         7.6A (maximum)           Power Consumption         435W (typical)           Dimensions         1222 (W)×736 (H)×96(D) mm	Sound output	9W+9W at 6 ohm
Power Consumption $435W$ (typical)Dimensions $1222$ (W) $\times$ 736 (H) $\times$ 96(D) mm	Power Supply	AC100-240V 50/60Hz
	Current Rating	7.6A (maximum)
	Power Consumption	435W (typical)
$48.1 \text{ (W)} \times 30 \text{ (H)} \times 3.8 \text{ (D)}$ inches	Dimensions	$1222 \text{ (W)} \times 736 \text{ (H)} \times 96 \text{(D)} \text{ mm}$
		$48.1 \text{ (W)} \times 30 \text{ (H)} \times 3.8 \text{ (D)}$ inches

Weight	
Environmental	Conciderations

Operati	ng Temperature	$0^{\circ}$ C to $40^{\circ}$ C / $32^{\circ}$ F to $104^{\circ}$ F
	Humidity	20 to 80% (no condensation)
	Altitude	720 to 1114 hPa
		(0 to 2800 m / 0 to 9180 feet)
Storage	Temperature	-10°C to 50°C / 14°F to 122°F

Temperature -10°C to 50°C / 14°F to 122°F 10 to 90% (no condensation) Humidity

44 kg / 97 lbs (without stand)

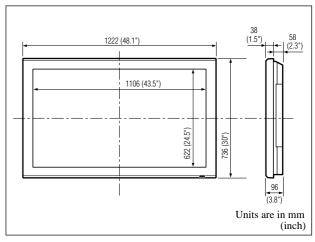
Altitude 700 to 1114 hPa

(0 to 3000 m / 0 to 9840 feet) Other Features Motion compensated 3D Scan Converter (NTSC,

PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I (60Hz)), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 4-25 multi screen, Self Diagnosis, Image Burn reduction tools (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only), Split

screen operations

IEC60950-1, EN60950-1, EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR22 class B



The features and specifications may be subject to change without notice.

*1 HD/DVD/DTV in	nput signals support	ed on this system.	
480P (60 Hz)	480I (60 Hz)	525P (60 Hz)	
525I (60 Hz)	576P (50 Hz)	576I (50 Hz)	
625P (50 Hz)	625I (50 Hz)	720P (60 Hz)	
720P (50 Hz)	1035I (60 Hz)	1080I (50 Hz)	
1080I (60 Hz)	1080P (50 Hz)	1080P (60 Hz)	

 ${
m *}^{2}$  The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".

\*3 Compatible with HDCP.

### Supported Signals

- 640 × 480P @ 59.94/60Hz • 1920 × 1080I @ 50Hz
- 1280 × 720P @ 59.94/60Hz • 720 × 576P @ 50Hz
- 1920 × 1080I @ 59.94/60Hz • 1280 × 720P @ 50Hz
- 720 × 480P @ 59.94/60Hz

Note: In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc...). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Regulations

# **Specifications**

■ 61XM4	
Screen Size	1351(H)×760(V) mm
	$53.2"(H) \times 29.9"(V)$ inches
	diagonal 61"
Aspect Ratio	16:9
Resolution	1365(H)×768(V) pixels
Pixel Pitch	0.99(H)×0.99(V) mm
	$0.039"(H) \times 0.039"(V)$ inches
Color Processing	4,096 steps, 68.7 billion colors
Signals	
Synchronization Range	Horizontal: 15.5 to 110 kHz
	(automatic : step scan)
	Vertical: 50.0 to 120 Hz
	(automatic : step scan)
Input Signals	RGB, NTSC (3.58/4.43), PAL (B,G,M,N),
	PAL60, SECAM, HD*1, DVD*1, DTV*1
Input Terminals (VIDEO1 and	RGB1 can also be used as OUTPUT terminals)
RGB	
Visual 1 (Analog)	mini D-sub 15-pin×1
Visual 2 (Analog)	BNC (R, G, B, HD, VD) $\times 1^{*2}$
Visual 3 (Digital)	DVI-D 24-pin $\times$ 1*3
Video	
Visual 1	$BNC \times 1$
Minual O	$RCA$ -pin $\times 1$
Visual 2	KCA-piii∧ i

Visual 3	S-Video: DIN 4-pin×1
DVD/HD	
Visual 1	RCA-pin (Y, Cb/Pb, Cr/Pr) $\times 1^{*1}$
Visual 2	BNC (Y, Cb/Pb, Cr/Pr) $\times 1^{*1,*2}$
Visual 3	DVI-D 24-pin $\times$ 1*3
Audio	Stereo RCA×3 (Selectable)
External Control	D-sub 9-pin×1 (RS-232C)
Sound output	9W+9W at 6 ohm
Power Supply	AC100-240V 50/60Hz
Current Rating	8.0 A (maximum)
Power Consumption	540W (typical)
Dimensions	1470 (W) × 880 (H) × 119(D) mm
	$57.9 \text{ (W)} \times 34.7 \text{ (H)} \times 4.7 \text{ (D)}$ inches
Weight	61.0 kg / 134.5 lbs (without stand)

**Environmental Considerations** 

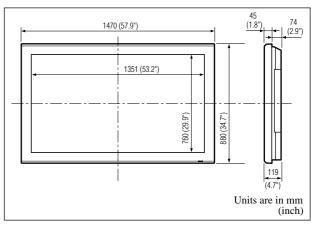
Other Features Motion compensated 3D Scan Converter (NTSC,

PAL, 480I, 576I, 525I, 625I, 1035I, 1080I), 2-3 pull down Converter (NTSC, 480I, 525I, 1035I, 1080I), 2-2 pull down Converter (PAL, 576I, 625I, NTSC, 480I, 525I), Digital Zoom Function (100-900% Selectable), Video Wall 4-25 multi screen, Self Diagnosis, Image Burn reduction tools (PLE LOCK1~3, INVERSE, WHITE, ORBITER (Auto1,2/Manual), SCREEN WIPER), Color Temperature select (high/mid/mid low/low, user has 4 memories), Control lock (Except power SW), Auto Picture, Input Skip, Color Tune, Low Tone (3 mode), Auto ID, Programmable Timer, Gamma Correction (4 mode), Loop through interface, Plug and play (DDC1, DDC2b, RGB3: DDC2b only),

Split screen operations

Regulations IEC60950-1, EN60950-1,

EN55022 class B, EN55024, EN61000-3-2, EN61000-3-3, AS/NZS CISPR22 class B



The features and specifications may be subject to change without notice.

on this system.	ut signals support	*1 HD/DVD/DTV in
525P (60 Hz)	480I (60 Hz)	480P (60 Hz)
576I (50 Hz)	576P (50 Hz)	525I (60 Hz)
720P (60 Hz)	625I (50 Hz)	625P (50 Hz)
1080I (50 Hz)	1035I (60 Hz)	720P (50 Hz)
1080P (60 Hz)	1080P (50 Hz)	1080I (60 Hz)
1080I (50 Hz)	1035I (60 Hz)	720P (50 Hz)

\*2The 5-BNC connectors are used as RGB/PC2 and HD/DVD2 input. Select one of them under "BNC INPUT".

\*3 Compatible with HDCP.

### Supported Signals

- 640 × 480P @ 59.94/60Hz
- 1920 × 1080I @ 50Hz
- $1280 \times 720P @ 59.94/60Hz$
- 720 × 576P @ 50Hz
- 1920 × 1080I @ 59.94/60Hz
  - 1280 × 720P @ 50Hz
- 720 × 480P @ 59.94/60Hz

**Note:** In some cases a signal on the plasma monitor may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc...). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

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