

# PlasmaSync Plasma Monitor



*PlasmaSync 61XM3*  
*PX-61XM3G*

**Model Information**

**Modell-Informationen**

**Informations modèle**

**Información del modelo**

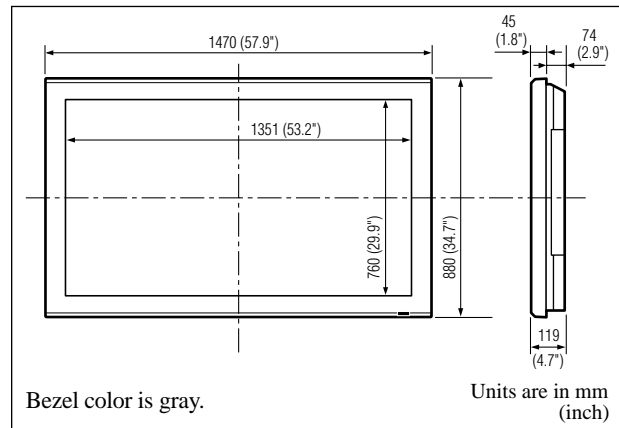
**Informazioni sul modello**

**Информация о модели**

# Specifications

For the operation of your plasma monitor, refer to "Operation Manual".

|   |  |
|---|--|
| <b>Screen Size</b>  | 1351(H) × 760(V) mm<br>53.2"(H) × 29.9"(V) inches<br>diagonal 61"  |
| <b>Aspect Ratio</b>   | 16 : 9   |
| <b>Resolution</b>   | 1365(H) × 768(V) pixels  |
| <b>Pixel Pitch</b>  | 0.99(H) × 0.99(V) mm<br>0.039"(H) × 0.039"(V) inches   |
| <b>Color Processing</b>   | 4,096 steps, 68.7 billion colors   |
| <b>Signals</b>  |  |
| Synchronization Range   | Horizontal : 15.5 to 110 kHz<br>(automatic : step scan)<br>Vertical : 50.0 to 120 Hz<br>(automatic : step scan)  |
| Input Signals   | RGB, NTSC (3.58/4.43), PAL (B,G,M,N),<br>PAL60, SECAM, HD* <sup>1</sup> , DVD* <sup>1</sup> , DTV* <sup>1</sup>  |
| <b>Input Terminals</b> (VIDEO1 and RGB1 can also be used as OUTPUT terminals) |  |
| <b>RGB</b>  |  |
| Visual 1 (Analog)   | mini D-sub 15-pin × 1  |
| Visual 2 (Analog)   | BNC (R, G, B, H/CS, V) × 1* <sup>2</sup>   |
| Visual 3 (Digital)  | DVI-D 24-pin × 1* <sup>3</sup>   |
| <b>Video</b>  |  |
| Visual 1  | BNC × 1  |
| Visual 2  | RCA-pin × 1  |
| Visual 3  | S-Video: DIN 4-pin × 1   |
| <b>DVD/HD/DTV</b>   |  |
| Visual 1  | RCA-pin (Y, PB[CB], PR[CR]) × 1* <sup>1</sup>  |
| Visual 2  | BNC (Y, PB[CB], PR[CR]) × 1* <sup>1, *2</sup>  |
| Visual 3  | DVI-D 24-pin × 1* <sup>3</sup>   |
| <b>Audio</b>  | Stereo RCA × 3 (Selectable)  |
| <b>External Control</b>   | D-sub 9-pin × 1 (RS-232C)  |
| <b>Sound output</b>   | 9W+9W at 6 ohm   |
| <b>Power Supply</b>   | AC100-240V 50/60Hz   |
| <b>Current Rating</b>   | 8.0 A (maximum)  |
| <b>Power Consumption</b>  | 540W (typical)   |
| <b>Dimensions</b>   | 1470 (W) × 880 (H) × 119(D) mm<br>57.9 (W) × 34.7 (H) × 4.7 (D) inches   |
| <b>Weight</b>   | 61.0 kg / 134.5 lbs (without stand)  |
| <b>Environmental Considerations</b>   |  |
| Operating Temperature   | 0°C to 40°C / 32°F to 104°F  |
| Humidity  | 20 to 80% (no condensation)  |
| Altitude  | 0 to 2800 m / 0 to 9180 feet   |
| Storage Temperature   | -10°C to 50°C / 14°F to 122°F  |
| Humidity  | 10 to 90% (no condensation)  |
| Altitude  | 0 to 3000 m / 0 to 9840 feet   |
| <b>Front Panel User Controls</b>  | Power on/off, Input source select,<br>Volume up/down/ OSM control  |
| <b>Remote Control Functions</b>   | Power on/off, Input source select, OSM<br>control, Volume up/down, Cursor (UP,<br>DOWN, LEFT, RIGHT), Pointer, Zoom up/<br>down, Off timer, Wireless/Wired remote<br>control, Split screen buttons   |
| <b>OSM Functions</b>  | Picture (Contrast/Brightness/Sharpness/ Color/Tint/<br>Picture mode/Noise reduction/Color temperature/<br>White balance/Gamma/Low tone/Color tune), Audio<br>(Bass/Treble/Balance/Audio input), Image Adjust<br>(Aspect mode/V-Position /H-Position/V-Height /H-<br>Width/Auto Picture/Fine picture/Picture adjustment),<br>Option1 (OSM/BNC Input/D-Sub Input/RGB Select/<br>HD Select/Input Skip/All Reset), Option2 (Power<br>management/Cinema mode/Long life [PLE, Orbiter,<br>Inverse, White, Screen wiper, Soft focus]/Gray level/<br>S1/S2/Picture size/DVI Set up), Option3 (Timer/<br>Power on mode/Control lock/IR Remote/Loop out/<br>ID number/Video wall [Divider, Position, Disp. mode,<br>Auto ID, Image adjust, Power on delay, PLE link,<br>Timer]), Option4 (Sub. P detect/Zoom nav/Pic freeze/<br>Seamless SW), Advanced OSM, Language*, Color<br>system, Source information<br>*English, German, French, Italian, Spanish, Swedish,<br>Chinese, Russian |



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

## \*<sup>1</sup> HD/DVD/DTV input signals supported 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)  | 1035I (60 Hz) |
| 1080I (50 Hz) | 1080I (60 Hz) |

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

## \*<sup>3</sup> Compatible with HDCP.

### Supported Signals

- 640 × 480P @ 59.94/60Hz
- 1280 × 720P @ 59.94/60Hz
- 1920 × 1080I @ 59.94/60Hz
- 720 × 480P @ 59.94/60Hz
- 1440 (720) × 480I @ 59.94/60Hz
- 1920 × 1080I @ 50Hz
- 720 × 576P @ 50Hz
- 1440 (720) × 576P @ 50Hz

**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.

|                       |  |
|-----------------------|--|
| <b>Other Features</b> | 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 |
|-----------------------|--|

|                    |   |
|--------------------|---|
| <b>Accessories</b> | Remote control with two AAA batteries, Power cord, Manuals, Safety metal fittings, Ferrite cores, Bands, Cable clamps |
|--------------------|---|

|                    |   |
|--------------------|---|
| <b>Regulations</b> | Meets EMC Directive (EN55022 Class A, EN55024, EN61000-3-2, EN61000-3-3)<br>Meets Low Voltage Directive (EN60950-1, IEC60950-1, SEMKO Approved)<br>Meets AS/NZS CISPR 22:2002 Class A |
|--------------------|---|

# Table of Signals Supported

## Supported resolution

- 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                               | Dots × lines | Vertical frequency (Hz) | Horizontal frequency (kHz) | Sync Polarity |           | Presence   |          | Screen mode  |      |             | RGB select*5 | DVI | Memory |
|-------------------------------------|--------------|-------------------------|----------------------------|---------------|-----------|------------|----------|--------------|------|-------------|--------------|-----|--------|
|                                     |              |                         |                            | Horizontal    | Vertical  | Horizontal | Vertical | NORMAL (4:3) | TRUE | FULL (16:9) |              |     |        |
| IBM PC/AT*8<br>compatible computers | 640 × 400    | 70.1                    | 31.5                       | NEG           | NEG       | YES        | YES      | YES*2        | YES  | YES         | --           | NO  | 4      |
|                                     | 640 × 480    | 59.9                    | 31.5                       | NEG           | NEG       | YES        | YES      | YES          | YES  | YES         | STILL        | 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         | STILL        | YES | 8      |
|                                     |              | 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     |
|                                     |              | 120.4                   | 61.3                       | NEG           | NEG       | YES        | YES      | YES          | YES  | YES         | --           | YES | 42     |
|                                     | 848 × 480    | 60.0                    | 31.0                       | POS           | POS       | YES        | YES      | --           | YES  | YES         | WIDE2        | YES | 19     |
|                                     | 852 × 480*1  | 60.0                    | 31.7                       | NEG           | NEG       | YES        | YES      | --           | YES  | YES         | WIDE1        | YES | 17     |
|                                     | 800 × 600    | 56.3                    | 35.2                       | POS           | POS       | YES        | YES      | YES          | YES  | YES         | STILL        | YES | 11     |
|                                     |              | 60.3                    | 37.9                       | POS           | POS       | YES        | YES      | YES          | YES  | YES         | STILL        | 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     |
|                                     | 1024 × 768   | 120.0                   | 75.7                       | POS           | POS       | YES        | YES      | YES          | YES  | YES         | --           | YES | 44     |
|                                     |              | 60.0                    | 48.4                       | NEG           | NEG       | YES        | YES      | YES*3        | --   | YES         | STILL        | YES | 24     |
|                                     |              | 70.1                    | 56.5                       | NEG           | NEG       | YES        | YES      | YES*3        | --   | YES         | --           | YES | 25     |
|                                     |              | 75.0                    | 60.0                       | POS           | POS       | YES        | YES      | YES*3        | --   | YES         | STILL        | 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          | YES | 45     |
|                                     |              | 75.0                    | 67.5                       | POS           | POS       | YES        | YES      | YES          | --   | YES         | STILL        | YES | 51     |
|                                     | 1280 × 768   | 56.2                    | 45.1                       | POS           | POS       | YES        | YES      | --           | --   | YES         | WIDE1        | NO  | 52     |
|                                     |              | 59.8                    | 48.0                       | POS           | NEG       | YES        | YES      | --           | --   | YES         | WIDE3        | YES | 80     |
|                                     | 1280 × 768*9 | 69.8                    | 56.0                       | NEG           | POS       | YES        | YES      | --           | --   | YES         | WIDE1        | YES | 66     |
|                                     | 1280 × 800*9 | 60.0                    | 49.7                       | NEG           | NEG       | YES        | YES      | --           | --   | YES         | WIDE1        | YES | 21     |
|                                     | 1280 × 854*9 | 60.0                    | 53.1                       | NEG           | NEG       | YES        | YES      | --           | --   | YES         | WIDE2        | YES | 37     |
|                                     | 1360 × 765   | 60.0                    | 47.7                       | POS           | POS       | YES        | YES      | --           | --   | YES*3       | WIDE1        | NO  | 22     |
|                                     | 1360 × 768   | 60.0                    | 47.7                       | POS           | POS       | YES        | YES      | --           | --   | YES*3       | WIDE1        | YES | 22     |
|                                     | 1376 × 768   | 59.9                    | 48.3                       | NEG           | POS       | YES        | YES      | --           | --   | YES         | WIDE2        | YES | 53     |
|                                     | 1280 × 1024  | 60.0                    | 64.0                       | POS           | POS       | YES        | YES      | YES*4        | --   | YES         | STILL        | 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  | WIDE4       | 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  | WIDE2       | --           | 81  |        |
| 1920 × 1200RB*9                     | 60.0         | 74.0                    | NEG                        | NEG           | YES       | YES        | --       | --           | YES  | WIDE3       | YES          | 88  |        |
| Apple Macintosh*6 *8                | 640 × 480    | 66.7                    | 35.0                       | Sync on G     | Sync on G | --         | --       | YES          | YES  | YES         | --           | NO  | 6      |
|                                     | 832 × 624    | 74.6                    | 49.7                       | Sync on G     | Sync on G | --         | --       | YES          | YES  | YES         | --           | NO  | 16     |
|                                     | 1024 × 768   | 74.9                    | 60.2                       | Sync on G     | Sync on G | --         | --       | YES*3        | --   | YES         | WIDE1        | NO  | 28     |
|                                     | 1152 × 870   | 75.1                    | 68.7                       | Sync on G     | Sync on G | --         | --       | YES          | --   | YES         | WIDE1        | NO  | 39     |
|                                     | 1440 × 900*9 | 60.0                    | 56.0                       | NEG           | NEG       | YES        | YES      | --           | --   | YES         | --           | YES | 89     |
| Work Station (EWS4800)*8            | 1280 × 1024  | 60.0                    | 64.6                       | NEG           | NEG       | YES        | YES      | YES*4        | --   | YES         | --           | YES | 29     |
|                                     |              | 71.2                    | 75.1                       | NEG           | NEG       | YES        | YES      | YES*4        | --   | YES         | --           | YES | 48     |
| Work Station (HP)*8                 | 1280 × 1024  | 72.0                    | 78.1                       | --            | --        | --         | --       | YES*4        | --   | YES         | --           | YES | 59     |
| Work Station (SUN)*8                | 1152 × 900   | 66.0                    | 61.8                       | C Sync        | C Sync    | --         | --       | YES          | --   | YES         | --           | YES | 60     |
|                                     |              | 76.0                    | 71.7                       | C Sync        | C Sync    | --         | --       | YES          | --   | YES         | --           | YES | 61     |
|                                     | 1280 × 1024  | 76.1                    | 81.1                       | C Sync        | C Sync    | --         | --       | YES*4        | --   | YES         | --           | YES | 30     |
| Work Station (SGI)                  | 1024 × 768   | 60.0                    | 49.7                       | --            | --        | --         | --       | YES*3        | --   | YES         | --           | YES | 62     |
|                                     | 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       | MOTION       | NO  | 32     |

- \*1 Only when using a graphic accelerator board that is capable of displaying 852 × 480.
- \*2 This signal is converted to a 1024 dots × 640 lines signal.
- \*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 960 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.  
To view 480I@60Hz (480 interlaced lines, 60Hz refresh rate) or 576I@50Hz (567 interlaced lines, 50Hz refresh rate) when sync polarity is "Sync on Green", set "RGB SELECT" to "MOTION".
- \*9 CVT standard compliant.

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**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 × 1024 lines signal or 1600 dots × 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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- "IBM PC/AT" and "XGA" are registered trademarks of International Business Machines, Inc. of the United States.
  - "Apple Macintosh" is a registered trademark of Apple Computer, Inc. of the United States.

# Important Information

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## Warning

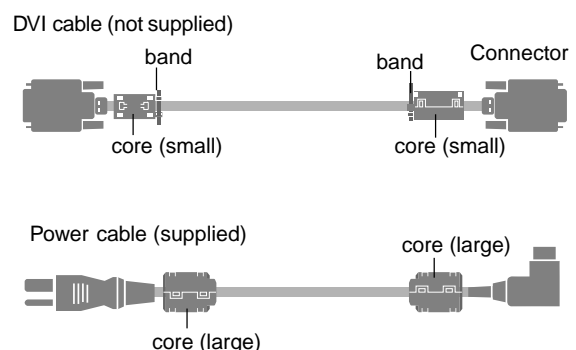
Apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

**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 DVI and 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 DVI cable (not supplied), and both ends of the power cable (supplied). Close the lid tightly until the clamps click. Use the band to fasten the ferrite core (supplied) to the DVI cable.



# Operation Manual

**(Enhanced split screen Model)**

For the specifications of your plasma monitor, refer to "Model Information".

**ENGLISH**

**DEUTSCH**

**FRANÇAIS**

**ESPAÑOL**


**ITALIANO**

**РУССКИЙ**


# 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" on the next page.

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:

1. Provide adequate space for ventilation to avoid internal heat build-up. 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.
2. 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.
4. Avoid damage to the power cord, and do not attempt to modify the power cord.
5. Unplug the power cord during electrical storms or if the unit will not be used over a long period.
6. 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.

To avoid damage and prolong operating life:

1. 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.
4. 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.
5. Do not hit or scratch the panel surface as this causes flaws on the surface of the screen.
6. For correct installation and mounting it is strongly recommended to use a trained, authorized dealer.
7. 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.
9. 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:

1. 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.
2. Clean plasma ventilation areas with a vacuum cleaner with a soft brush nozzle attachment.
3. 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 phosphor burn-in:

Like all phosphor-based display devices and all other gas plasma displays, plasma monitors can be susceptible to phosphor burn under certain circumstances. Certain operating conditions, such as the continuous display of a static image over a prolonged period of time, can result in phosphor burn 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 burn:

- \* 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 phosphor burn:

- \* 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.

\* Note: Burn-in is not covered by the warranty.

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



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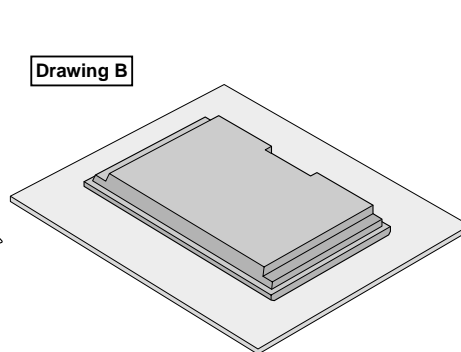
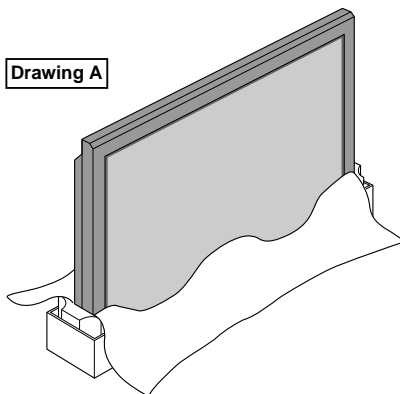
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# Installation

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.)**
  - \* See page E-3.
  - **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.**

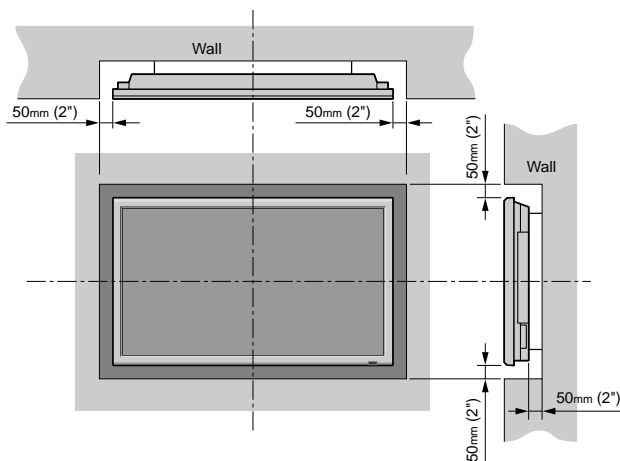


When installing or carrying, use the handles attached to the upper back of the display.



## Ventilation Requirements for enclosure mounting

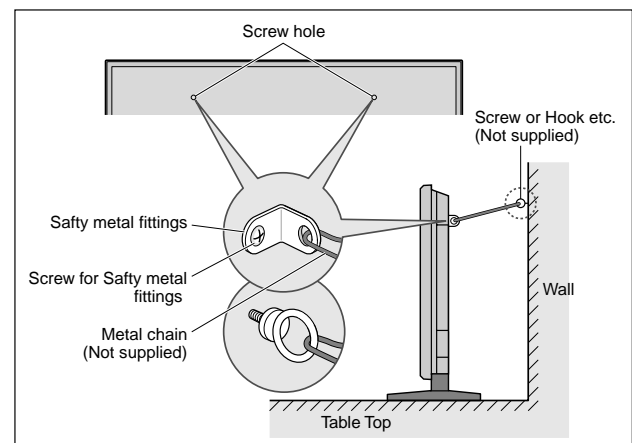
To allow heat to disperse, leave space between surrounding objects as shown on the diagram below when installing.



## How to use the safety metal fittings and the screws for safety metal fittings

These are fittings for fastening the unit to a wall to prevent tipping due to external shock when using the stand (optional). Fasten the safety fittings to the holes in the back of the monitor using the safety fitting mount screws.

\* Safety metal fittings will differ according to the model.

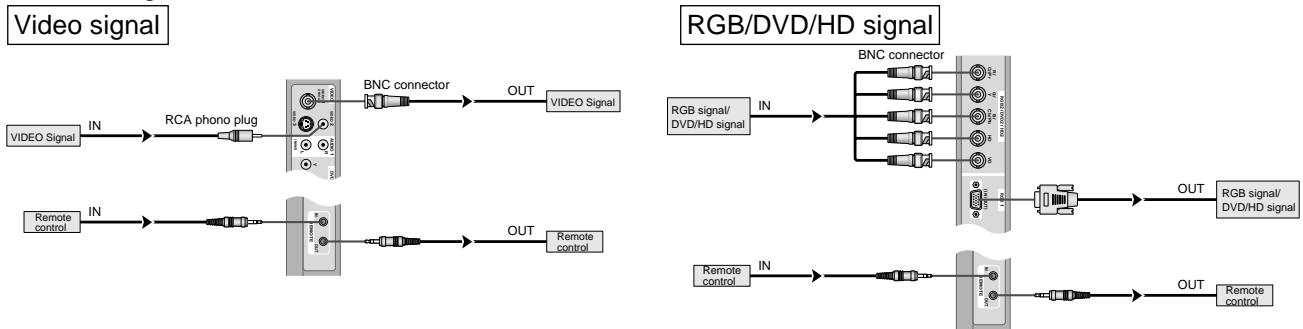




## Creating a video wall

With built-in matrix display capability, you can create a 4-25 video wall.

- Connect signal cables and remote cables as shown below.



### Note:

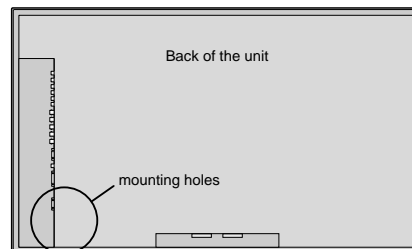
1. The VIDEO1 and RGB1 terminals can be used for either INPUT or OUTPUT. When LOOP OUT is ON, do not connect an OUTPUT signal from another unit, that will place an extraordinary load on the other unit and may damage it.
2. LOOP OUT can not be turned ON while signals are input to the RGB1 terminal.
3. LOOP OUT can be turned ON while signals are input to the RGB1 terminal if the POWER is switched ON.

### Information

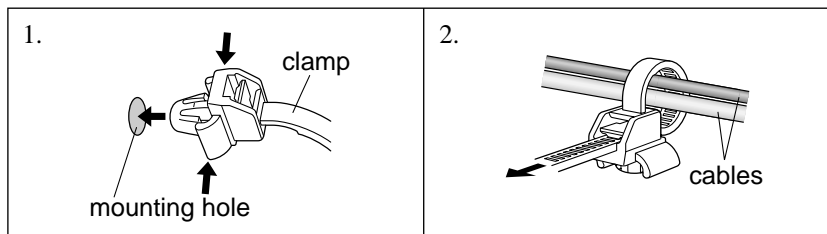
- To loop signals out to another plasma display, set the LOOP OUT to ON.
- To create a video wall, set the VIDEO WALL menu items properly.
- To connect monitors, please use a 1~2m (3.3~6.6 feet) BNC cable (any commercially available cable).
- If the image quality is poor, do not use the monitor's out 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, maximally 4-screen is rough-standard with lower than 1024×768, 60Hz signal.
- A distribution amplifier is particularly recommended when using 9-screen and over video wall.
- From the second monitor onward, connections require a BNC-RCA conversion cable or connector, a mini D-Sub 15 pin cable-BNC (×5) cable or a conversion connector.

## Cable Management

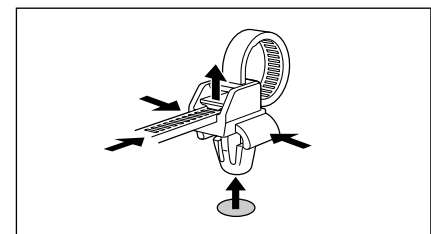
Using the cable-clamps provided with the plasma display, bundle at the back of the unit the signal and audio cables connected to the display.



To attach

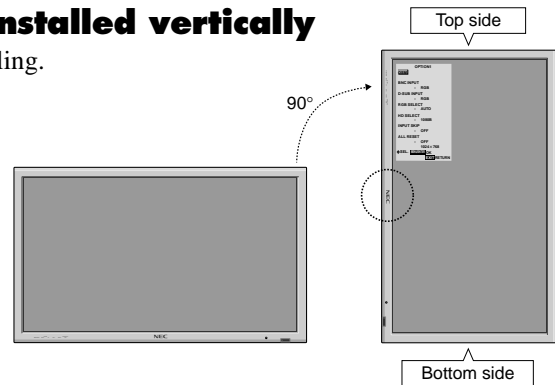


To detach



## Caution on when the plasma monitor is installed vertically

- Use the optional unit. Contact your store of purchase when installing.
- Rotate 90° clockwise as seen from the front when installing.
- After installing, check with the NEC logo mark as seen from the front.
- Be sure to set "OSM ANGLE" to "V" when using.
- \* Failure to heed the above cautions may lead to malfunction.

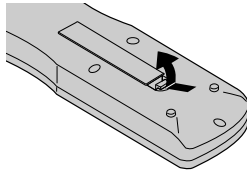


## How to use the remote control

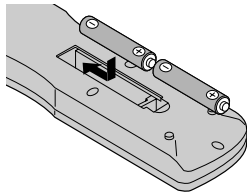
### Battery Installation and Replacement

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

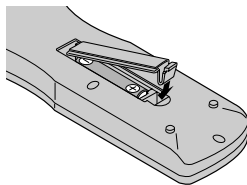
1. Press and open the cover.



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



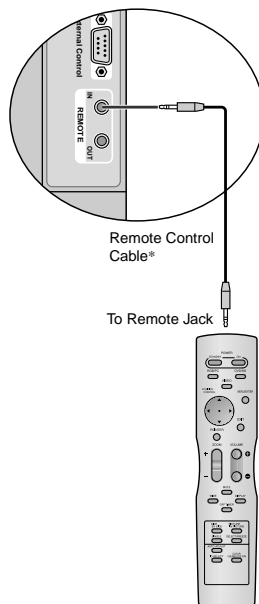
3. Replace the cover.



### Using the wired remote control mode

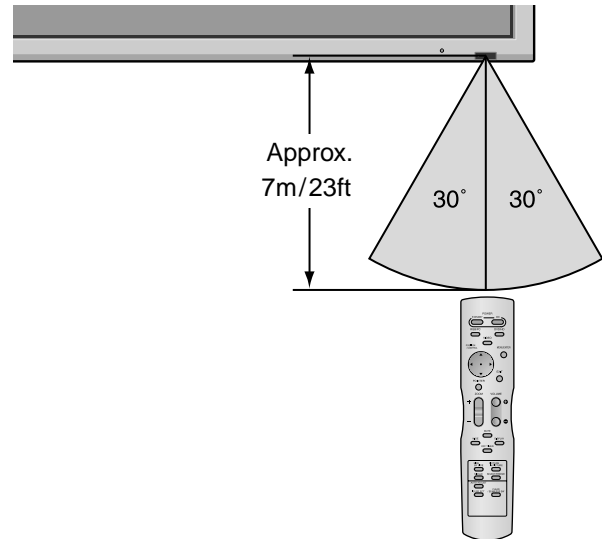
Connect the remote cable\* to the remote control's remote jack and the "REMOTE IN" terminal on the monitor.

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.



### 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.



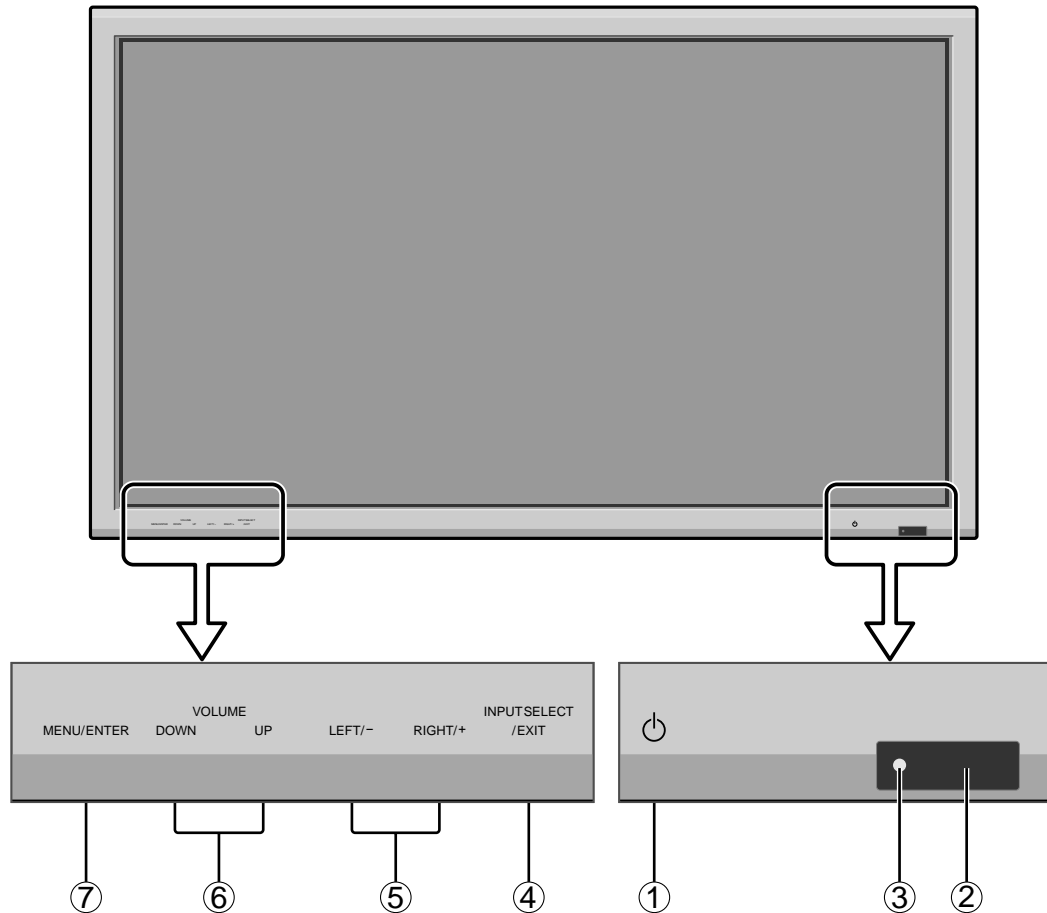
### Handling the remote control

- 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.

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

# 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.  
The available inputs depend on the settings of "BNC INPUT", "D-SUB INPUT", "RGB SELECT" and "DVI SET UP".  
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 (◀ / ▶) 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 disconnect the plasma display completely from the supply mains.

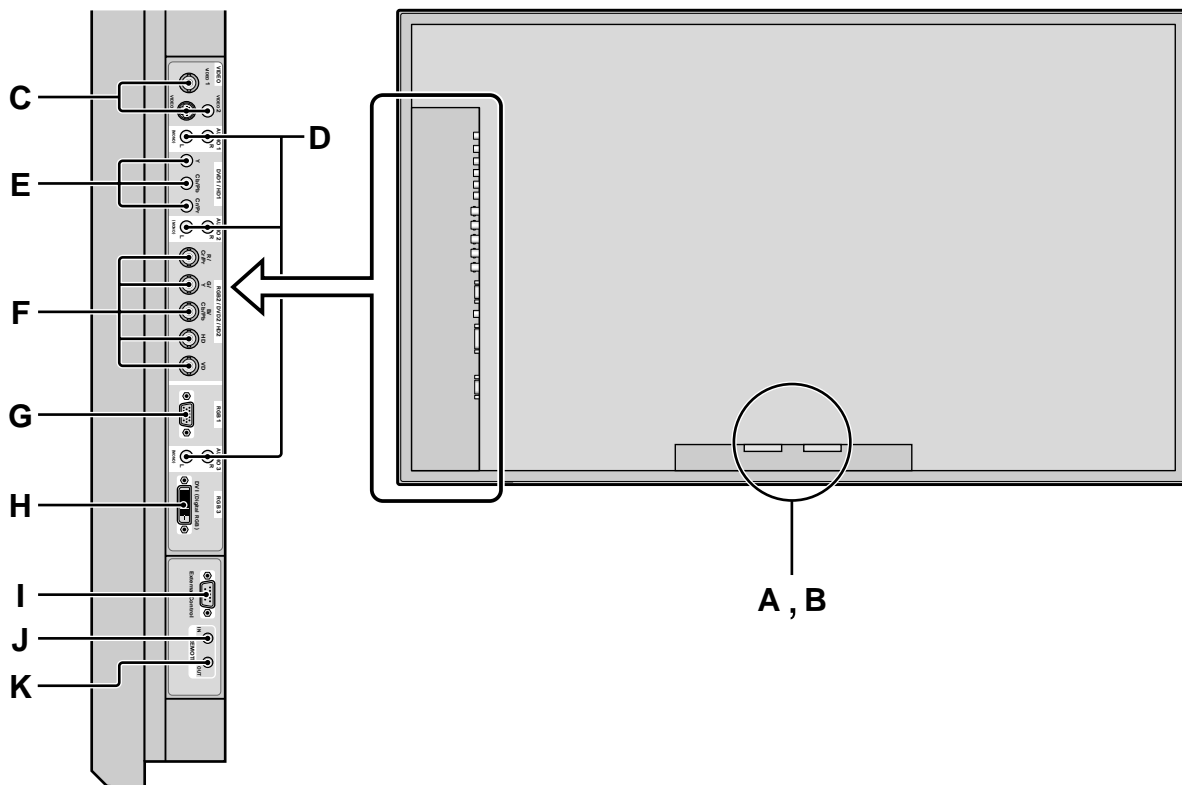
**Note:** This plasma monitor has the capacity to display images when connected to European DVD players with a SCART output signal, which is RGB with composite sync.

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.

Please refer to page E-21 for selection of the correct mode in the on-screen manager.

## Rear View/ Terminal Board



### 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  $\oplus$  (positive) speaker wire to the  $\oplus$  EXT SPEAKER terminal and the  $\ominus$  (negative) speaker wire to the  $\ominus$  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 (see page E-5).

### D AUDIO1, AUDIO2, AUDIO3

These are audio input terminals.

The input is selectable. Set which video image to allot them 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 synchronization 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 (see page E-21)

### 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. (see

### H RGB3 (DVI 24pin)

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

This input can be set for use with an RGB/PC3 (see page E-26)

### I EXTERNAL CONTROL

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

### J REMOTE IN

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

### K REMOTE OUT

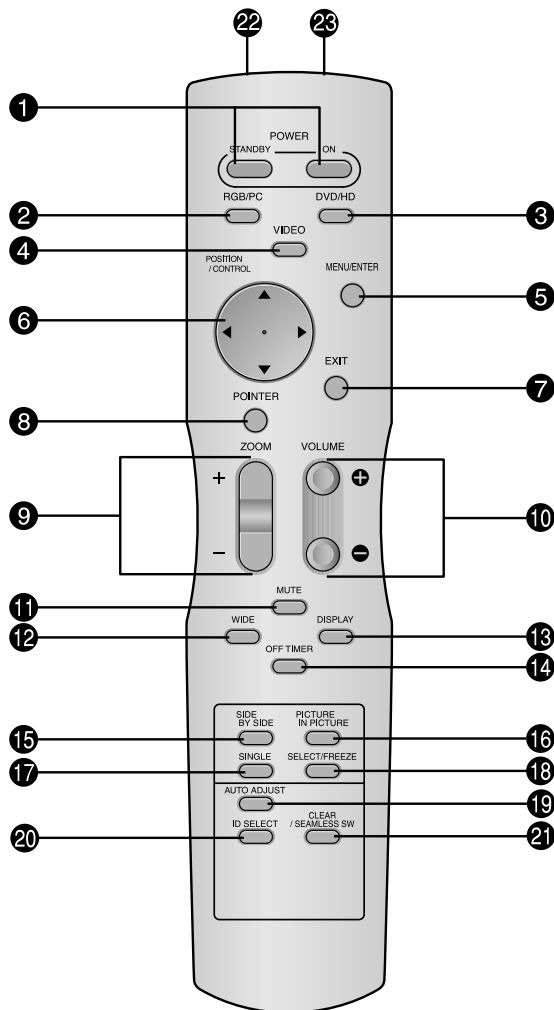
Connect the remote cable\* to the REMOTE IN jack of the other display monitor to obtain wired remote control.

\* 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.

## Remote Control



- 1 POWER ON/STANDBY**  
Switches the power on/standby.  
(This does not operate when POWER/STANDBY indicator of the main unit 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.
- VIDEO1 → VIDEO2 → VIDEO3 →
- VIDEO can also be selected using the INPUT SELECT button on the monitor.
- 5 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.

- 7 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.
- 11 MUTE**  
Mutes the audio.
- 12 WIDE**  
Automatically detects the signal and sets the aspect ratio.  
Wide button is not active for all signals.
- 13 DISPLAY**  
Displays the source settings on the screen.
- 14 OFF TIMER**  
Activates the off timer for the unit.
- 15 SIDE BY SIDE**  
Press this button to show a couple of pictures in the side-by-side mode.
- 16 PICTURE IN PICTURE**  
Press this button to show a couple of pictures in the picture-in-picture mode.
- 17 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.
- 19 AUTO ADJUST**  
Press this button to adjust Fine Picture, Picture ADJ, Position, and Contrast automatically, or to switch the screen size to ZOOM mode automatically with the superimposed caption displayed fully only when the picture contains dark areas above and below the picture.
- 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.
- 21 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.
- 22 Remote control signal transmitter**  
Transmits the remote control signals.
- 23 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 ⊖ 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. (  )

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

### To change the picture position:

1. Select the position with the ▲▼◀▶ 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 with the superimposed caption displayed fully only when the picture contains dark areas above and below the picture.

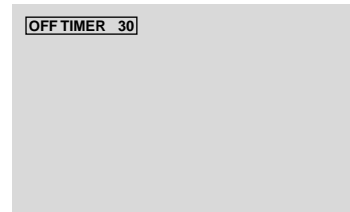
## OFF TIMER

### To set the off timer:

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

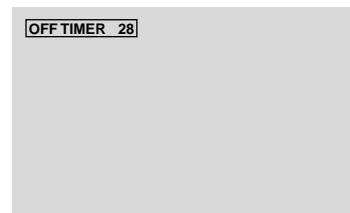
1. Press the OFF TIMER button to start the timer at 30 minutes.
2. Press the OFF TIMER button to the desired time.
3. The timer starts when the menu turns off.

→ 30 → 60 → 90 → 120 → 0



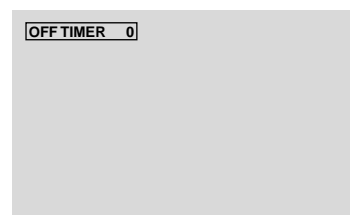
### To check the remaining time:

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 of 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:

→ NORMAL → FULL → STADIUM → ZOOM → 2.35:1 → 14:9 →

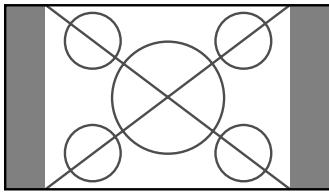
When a 720P or 1080I signal is input:

FULL ↔ 2.35:1

When displaying enhanced split screen:

NORMAL ↔ FULL

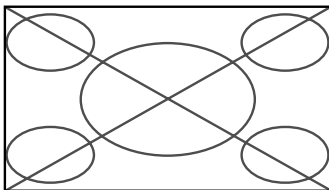
### NORMAL size screen (4:3)



The normal size screen is displayed.

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

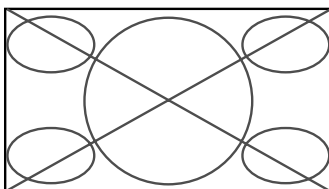
### FULL size screen



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.)

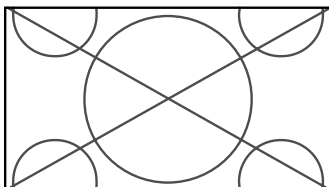
### STADIUM size screen



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.

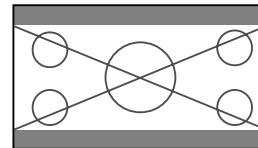
### ZOOM size screen



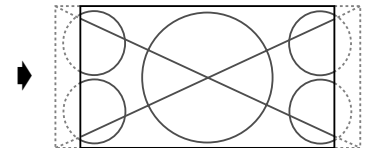
The picture is expanded in the horizontal and vertical direction, maintaining the original proportions.

- \* Use this for theater size (wide) movies, etc.

### 2.35:1 size screen



Original image



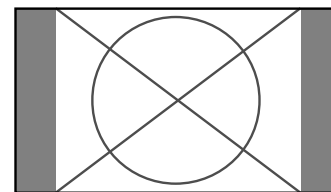
Information is lost on both sides.

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 avoid phosphor burn-in.

### 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 the displayed in 4:3 mode for an extended period. This can cause a phosphor burn-in.*

## 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.

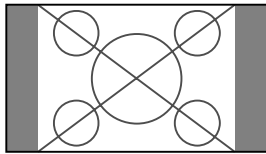
The screen size switches as follows:

→ **NORMAL** → **FULL** → **ZOOM**

When displaying enhanced split screen:

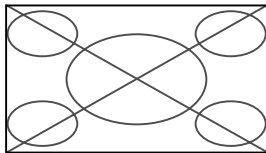
**NORMAL** ↔ **FULL**

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



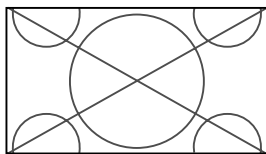
The picture has the same size as the normal computer image.

**FULL** size screen



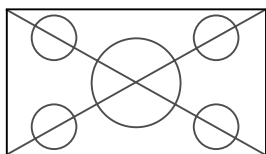
The image is expanded in the horizontal direction.

**ZOOM** size screen



When wide signals are input.

**FULL** size screen

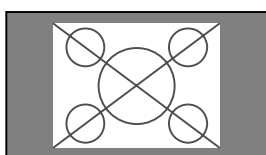


When **“PICTURE SIZE”** is set to **“OFF”**

The screen size switches as follows:

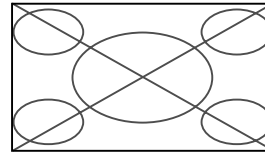
→ **TRUE** → **FULL** → **ZOOM**

**TRUE** size screen (VGA, SVGA 4:3)



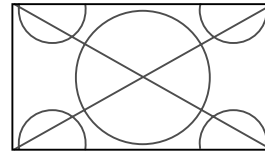
The image is true resolution.

**FULL** size screen



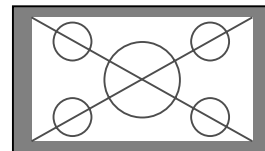
The image is expanded in the horizontal and vertical direction.

**ZOOM** size screen



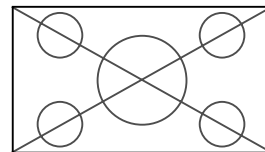
When wide signals are input.

**TRUE**



The image is true resolution.

**FULL**



### Information

#### ■ Supported resolution

See page E-2 of Model Information 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 NORMAL.

#### ■ When 852 (848) dot × 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 E-2 of Model Information.

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

### Note:

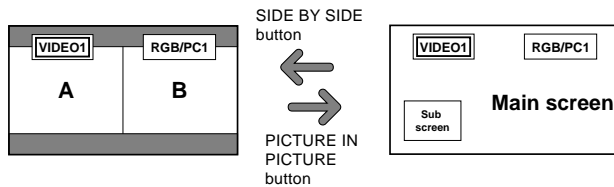
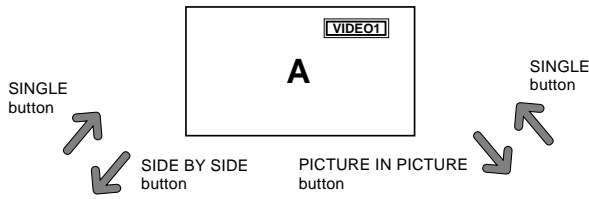
*Do not allow the displayed in 4:3 mode for an extended period. This can cause a phosphor burn-in.*

# SPLIT SCREEN Operations

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

\* An RGB-input picture may not be displayed in these modes, depending on the input signal specifications.

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**

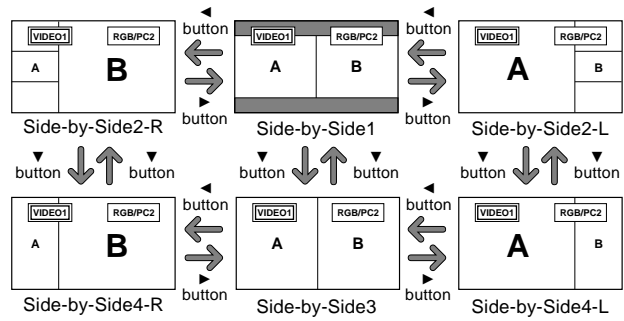
Split screen operations may not function depending on the combination of input signals. In the table below, "○" means Yes, "×" means No.

|   | Pictures displayed on the right/main screen (Select1) |        |        |         |         |         |       |          |
|---|---|--------|--------|---------|---------|---------|-------|----------|
|   | VIDEO1  | VIDEO2 | VIDEO3 | HD/DVD1 | HD/DVD2 | RGB/PC1 | RGB3  | SCART1-3 |
| Pictures displayed on the left/sub screen (Select2) | VIDEO1  | ×      | ×      | ×       | ○       | ○       | ○     | ×        |
|   | VIDEO2  | ×      | ×      | ×       | ○       | ○       | ○     | ×        |
|   | VIDEO3  | ×      | ×      | ×       | ○       | ○       | ○     | ×        |
|   | HD/DVD1   | ○      | ○      | ○       | ×       | ○       | ○     | ○        |
|   | HD/DVD2   | ○      | ○      | ○       | ○       | ×       | ○     | 1.2:×    |
|   | RGB2  | ○      | ○      | ○       | ○       | ○       | ×     | 3:○      |
|   | RGB/PC1   | ○      | ○      | ○       | ○       | ○       | ×     | 1.2:○    |
|   | RGB3  | ○      | ○      | ○       | ○       | ○       | ○     | 3:×      |
|   | SCART1-3  | ×      | ×      | ×       | ○       | 1.2:×   | 1.2:○ | 3:×      |

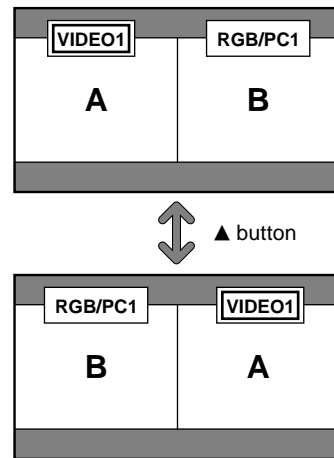
■ Split screen operations may not function depending on the type of the RGB signals.

## Operations in the Side-by-side mode

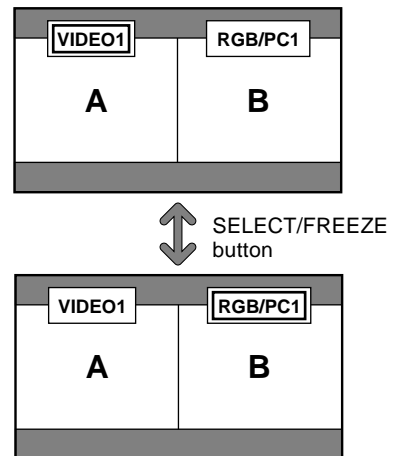
To change the picture size, press the cursor ◀▶ or ▼ button.



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

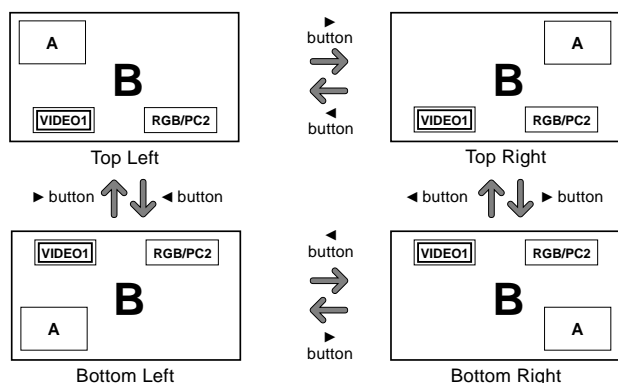


To make the desired picture active, press the SELECT/FREEZE button.

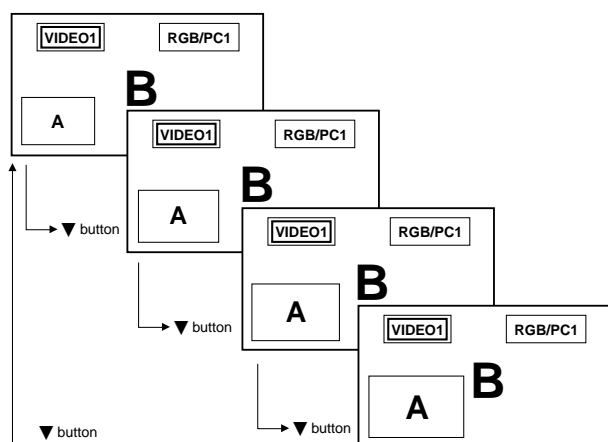


### Operations in the Picture-in-picture mode

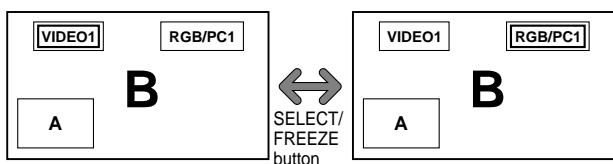
To move the position of the sub screen, press the cursor ◀ or ▶ button.



To change the size of the sub screen, press the ▼ 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 up pictures

1. Press the SELECT/FREEZE button to make the desired picture active.
2. Use the POINTER button and the ZOOM + / - button to enlarge the picture. For details, see “DIGITAL ZOOM” on page E-10.

### 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 E-15.

**Note:**

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

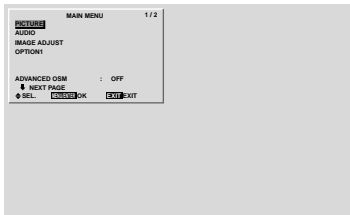
# OSM(On Screen Menu) Controls

## Menu Operations

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

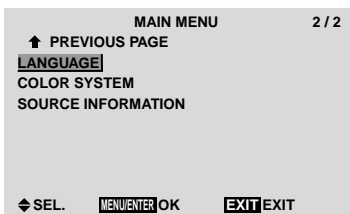
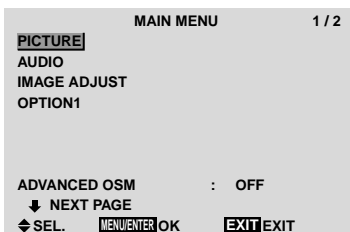
\* Depending on the screen's mode, the OSM may be displayed differently.

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

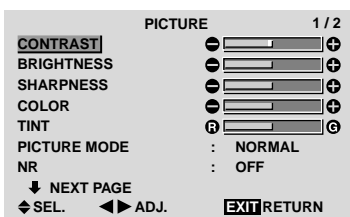


The following describes how to use the menus and the selected items.

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 the settings that are stored in memory. The change is stored until you change it again.
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.

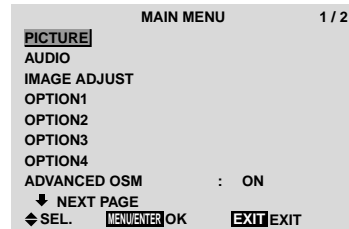
\* When adjusting using the bar at the bottom of the screen, press the ◀ or ▶ button within 5 seconds. If not, the current setting is set and the previous screen appears.

**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.



## Menu Tree

▒: Shaded areas indicate the default value.

← → + : Press the ◀ or ▶ button to adjust. The default value is at the center.

▭: Menu items in a ruled box are available when the ADVANCED OSM is set to ON.

| Main menu | Sub menu      | Sub menu 2                            | Sub menu 3 | Sub menu 4 | RESET | REFERENCE |
|-----------|---------------|---------------------------------------|------------|------------|-------|-----------|
| PICTURE   | CONTRAST      | ← → + 0 ← 52 → 72                     |            |            | YES   | E-18      |
|           | BRIGHTNESS    | ← → + 0 ← 32 → 64                     |            |            | YES   | E-18      |
|           | SHARPNESS     | ← → + 0 ← 16 → 32                     |            |            | YES   | E-18      |
|           | COLOR         | ← → + 0 ← 32 → 64                     |            |            | YES   | E-18      |
|           | TINT          | R ← → G 0 ← 32 → 64                   |            |            | YES   | E-18      |
|           | PICTURE MODE  | BRIGHT/NORMAL/THEAT.1/THEAT.2/DEFAULT |            |            | YES   | E-18      |
|           | NR            | OFF/NR-1/NR-2/NR-3                    |            |            | YES   | E-18      |
|           | COLOR TEMP    | LOW/MID LOW/MID/HIGH                  |            |            | YES   | E-18      |
|           | WHITE BALANCE | GAIN RED ← → + 0 ← → 70               |            |            | YES   | E-19      |
|           |               | GAIN GREEN ← → + 0 ← → 70             |            |            | YES   | E-19      |
|           |               | GAIN BLUE ← → + 0 ← → 70              |            |            | YES   | E-19      |
|           |               | BIAS RED ← → + 0 ← → 70               |            |            | YES   | E-19      |
|           |               | BIAS GREEN ← → + 0 ← → 70             |            |            | YES   | E-19      |
|           |               | BIAS BLUE ← → + 0 ← → 70              |            |            | YES   | E-19      |
|           |               | RESET OFF ← → ON                      |            |            | YES   | E-19      |
|           |               | GAMMA 1 ← → 2 ← → 3 ← → 4             |            |            | YES   | E-19      |
|           |               | LOW TONE AUTO ← → 1 ← → 3             |            |            | YES   | E-19      |
|           |               | COLOR TUNE RED Y ← → M 0 ← → 64       |            |            | YES   | E-19      |
|           |               | GREEN C ← → Y 0 ← → 64                |            |            | YES   | E-19      |
|           |               | BLUE M ← → C 0 ← → 64                 |            |            | YES   | E-19      |
|           |               | YELLOW G ← → R 0 ← → 64               |            |            | YES   | E-19      |
|           |               | MAGENTA R ← → B 0 ← → 64              |            |            | YES   | E-19      |
|           |               | CYAN B ← → G 0 ← → 64                 |            |            | YES   | E-19      |
|           |               | RESET OFF ← → ON                      |            |            | YES   | E-19      |

| Main menu | Sub menu     | Sub menu 2                       | Sub menu 3 | Sub menu 4 | RESET | REFERENCE |
|-----------|--------------|----------------------------------|------------|------------|-------|-----------|
| AUDIO     | BASS         | ← → + 0 ← 13 → 26                |            |            | YES   | E-20      |
|           | TREBLE       | ← → + 0 ← 13 → 26                |            |            | YES   | E-20      |
|           | BALANCE      | L ← → R -22 ← 0 → 22             |            |            | YES   | E-20      |
|           | AUDIO INPUT1 | VIDEO 1-3 / HD/DVD 1-2 / RGB 1-3 |            |            | YES   | E-20      |
|           | AUDIO INPUT2 | VIDEO 1-3 / HD/DVD 1-2 / RGB 1-3 |            |            | YES   | E-20      |
|           | AUDIO INPUT3 | VIDEO 1-3 / HD/DVD 1-2 / RGB 1-3 |            |            | YES   | E-20      |

| Main menu    | Sub menu       | Sub menu 2                           | Sub menu 3 | Sub menu 4 | RESET | REFERENCE |
|--------------|----------------|--------------------------------------|------------|------------|-------|-----------|
| IMAGE ADJUST | ASPECT MODE    | NORMAL/FULL/STADIUM/ZOOM/2.35:1/14:9 |            |            | —     | E-20      |
|              | V-POSITION     | ← → + -64 ← 0 → 64                   |            |            | YES   | E-20      |
|              | H-POSITION     | ← → + -128 ← 0 → 127                 |            |            | YES   | E-20      |
|              | V-HEIGHT       | ← → + 0 ← → 64                       |            |            | YES   | E-20      |
|              | H-WIDTH        | ← → + 0 ← → 64                       |            |            | YES   | E-20      |
|              | AUTO PICTURE   | OFF ← → ON*2                         |            |            | NO    | E-20      |
|              | FINE PICTURE*1 | ← → + *2 0 ← → 64                    |            |            | YES   | E-20      |
|              | PICTURE ADJ.*1 | ← → + *2 0 ← → 128                   |            |            | YES   | E-20      |

| Main menu | Sub menu    | Sub menu 2                              | Sub menu 3                          | Sub menu 4 | RESET | REFERENCE |
|-----------|-------------|---|-------------------------------------|------------|-------|-----------|
| OPTION1   | OSM         | DISPLAY OSM                             | OFF ← → ON                          |            | YES   | E-21      |
|           |             | OSM ADJ.                                | 1 ← → 6                             |            | YES   | E-21      |
|           |             | OSM ANGLE                               | H ← → V                             |            | YES   | E-21      |
|           |             | OSM ORBITER                             | OFF ← → ON                          |            | YES   | E-21      |
|           |             | OSM CONTRAST                            | LOW ← → NORMAL                      |            | YES   | E-21      |
|           |             | BNC INPUT                               | RGB ← → COMP. ← → SCART1 ← → SCART2 |            | YES   | E-21      |
|           | D-SUB INPUT | RGB ← → SCART3                          |                                     | —          | E-21  |           |
|           | RGB SELECT  | AUTO/STILL/MOTION/WIDE1/WIDE2/WIDE3/DTV |                                     | YES        | E-21  |           |
|           | HD SELECT   | 1080B/1035I/1080A                       |                                     | NO         | E-22  |           |
|           | INPUT SKIP  | OFF ← → ON                              |                                     | YES        | E-22  |           |
|           | ALL RESET   | OFF ← → ON                              |                                     | —          | E-22  |           |



| Main menu   | Sub menu     | Sub menu 2   | Sub menu 3  | Sub menu 4                | RESET                           | REFERENCE |      |
|-------------|--------------|--------------|-------------|---------------------------|---------------------------------|-----------|------|
| OPTION2     | PWR. MGT.    | OFF↔ON       |             |                           | YES                             | E-23      |      |
|             | CINEMA MODE  | OFF↔ON       |             |                           | YES                             | E-23      |      |
|             | LONG LIFE    | PLE          |             | AUTO/LOCK 1/LOCK 2/LOCK 3 |                                 | YES       | E-23 |
|             |              | ORBITER      |             | AUTO 1                    |                                 | YES       | E-24 |
|             |              |              |             | AUTO 2                    |                                 | YES       | E-24 |
|             |              |              |             | MANUAL                    | H-DOT/V-LINE/TIME               | YES       | E-24 |
|             |              |              |             | OFF                       |                                 | YES       | E-24 |
|             |              | INVERSE      | OFF         |                           |                                 | YES       | E-24 |
|             |              |              | ON          |                           | WORKING TIME/WAITING TIME       | YES       | E-24 |
|             |              |              | WHITE       |                           |                                 | YES       | E-24 |
|             |              | SCREEN WIPER | OFF         |                           |                                 | YES       | E-25 |
|             |              |              | ON          |                           | WORKING TIME/WAITING TIME/SPEED | YES       | E-25 |
|             |              | SOFT FOCUS   | OFF/1/2/3/4 |                           |                                 | YES       | E-25 |
|             | GRAY LEVEL   |              | 0↔3↔15      |                           |                                 | YES       | E-25 |
|             | S1/S2        |              | AUTO↔OFF    |                           |                                 | YES       | E-25 |
|             | PICTURE SIZE |              | OFF↔ON      |                           |                                 | YES       | E-26 |
|             | DVI SET UP   | PLUG/PLAY    |             | PC↔STB/DVD                |                                 | NO        | E-26 |
| BLACK LEVEL |              |              | LOW↔HIGH    |                           | NO                              | E-26      |      |

| Main menu | Sub menu     | Sub menu 2   | Sub menu 3                                    | Sub menu 4                                   | RESET                                | REFERENCE |      |
|-----------|--------------|--------------|---|--|--------------------------------------|-----------|------|
| OPTION3   | TIMER        | PRESENT TIME | SUMMER TIME                                   | OFF↔ON                                       | NO                                   | E-26      |      |
|           |              |              | DAY/HOUR/MINUTES                              |  | NO                                   | E-26      |      |
|           |              | PROGRAM      | OFF   |  | YES                                  | E-27      |      |
|           |              |              |   | DATE/ON/OFF(HOUR, MINUTE)/INPUT/FUNCTION     | YES                                  | E-27      |      |
|           |              | MULTI REPEAT | OFF   |  | YES                                  | E-27      |      |
|           |              |              | ON  |  | MULTI MODE/WORK TIME/INPUT MODE      | YES       | E-27 |
|           | PWR. ON MODE |              | LAST /MULTI/ VIDEO 1-3 / HD/DVD 1-2 / RGB 1-3 |  | YES                                  | E-28      |      |
|           | CONTROL LOCK |              | OFF↔ON  |  | YES                                  | E-28      |      |
|           | IR REMOTE    |              | OFF↔ON  |  | YES                                  | E-28      |      |
|           | LOOP OUT     |              | OFF↔ON  |  | YES                                  | E-28      |      |
|           | ID NUMBER    |              | ALL↔1↔256                                     |  | YES                                  | E-29      |      |
|           | VIDEO WALL   | DIVIDER      |   | OFF/1/4/9/16/25                              |                                      | YES       | E-29 |
|           |              | POSITION     |   | No.1↔No.4/No.7↔No.15/No.16↔No.31/No.32↔No.56 |                                      | —         | E-29 |
|           |              | DISP. MODE   |   | SPLIT↔BLANK                                  |                                      | YES       | E-30 |
|           |              | AUTO ID      |   | OFF↔ON                                       |                                      | YES       | E-30 |
|           |              | IMAGE ADJUST | ASPECT MODE                                   |  | NORMAL/FULL/STADIUM/ZOOM/2.35:1/14:9 | —         | E-30 |
|           |              |              | V-POSITION                                    | —↔+  | -64↔0↔+64                            | YES       | E-30 |
|           |              |              | H-POSITION                                    | —↔+  | -128↔0↔+127                          | YES       | E-30 |
|           |              |              | V-HEIGHT                                      | —↔+  | 0↔64                                 | YES       | E-30 |
|           |              |              | H-WIDTH                                       | —↔+  | 0↔64                                 | YES       | E-30 |
|           |              |              | AUTO PICTURE                                  |  | OFF↔ON*2                             | NO        | E-30 |
|           |              |              | FINE PICTURE*1                                | —↔+ *2                                       | 0↔64                                 | YES       | E-30 |
|           |              |              | PICTURE ADJ.*1                                | —↔+ *2                                       | 0↔128                                | YES       | E-30 |
|           |              |              | P. ON DELAY                                   |  | OFF/ON/MODE1/MODE2                   | YES       | E-30 |
|           |              |              | PLE LINK                                      |  | OFF↔ON                               | YES       | E-31 |
|           |              |              | REPEAT TIMER                                  | OFF  |                                      | YES       | E-31 |
|           |              |              | ON  |  | DIVIDER/SOURCE/WORK TIME             | YES       | E-31 |

| Main menu | Sub menu      | Sub menu 2  | Sub menu 3                               | Sub menu 4 | RESET | REFERENCE |
|-----------|---------------|-------------|--|------------|-------|-----------|
| OPTION4   | SUB P. DETECT | OFF↔AUTO    |  |            | YES   | E-32      |
|           | ZOOM NAV      | OFF↔S BY S  | BTM LFT↔BTM RGT↔TOP RGT↔TOP LFT          |            | YES   | E-32      |
|           | PIC FREEZE    | OFF↔S BY S1 | ↔S BY S2↔BTM LFT↔BTM RGT↔TOP RGT↔TOP LFT |            | YES   | E-32      |
|           | SEAMLESS SW   | OFF         |  |            | YES   | E-33      |
|           |               | ON          | SELECT1/SELECT2                          |            | YES   | E-33      |

| Main menu          | Sub menu | Sub menu 2   | Sub menu 3 | Sub menu 4 | RESET | REFERENCE |
|--------------------|----------|--|------------|------------|-------|-----------|
| ADVANCED OSM       |          | OFF↔ON   |            |            | YES   | E-33      |
| LANGUAGE           |          | ENGLISH/DEUTSCH/FRANÇAIS/ESPAÑOL/ITALIANO/SVENSKA/中文/РУССКИЙ |            |            | NO    | E-33      |
| COLOR SYSTEM       |          | AUTO/3.58NTSC/4.43 NTSC/PAL/PAL 60/PAL-N/PAL-M/SECAM         |            |            | NO    | E-34      |
| SOURCE INFORMATION |          | —  |            |            | —     | E-34      |

\*1 Only when AUTO PICTURE is OFF

\*2 RGB/PC only

### Information

#### ■ Restoring the factory default settings

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

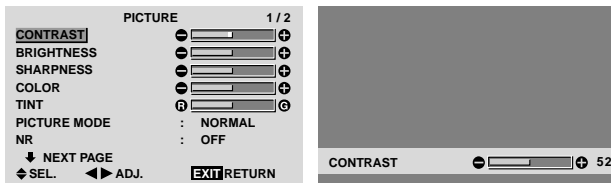
## Picture Settings Menu

### 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

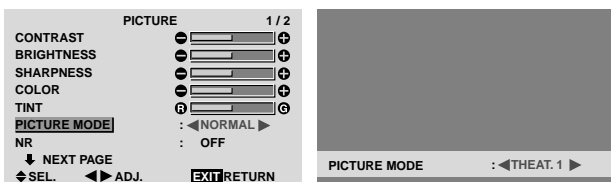
Select "DEFAULT" under the "PICTURE MODE" settings.

### 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.

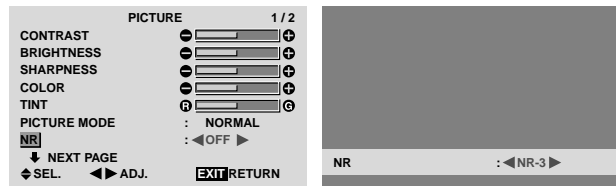
**DEFAULT:** Use this to reset the picture to the factory default settings.

### 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 → NR-2 → NR-3).

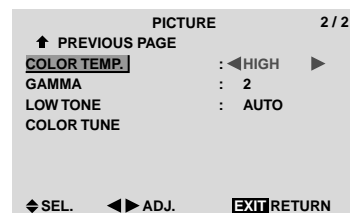
**OFF:** Turns the noise reduction function off.

### 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:** Redder

**MID LOW:** Slightly red

**MID:** Standard (slightly bluer)

**HIGH:** Bluer

### 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.

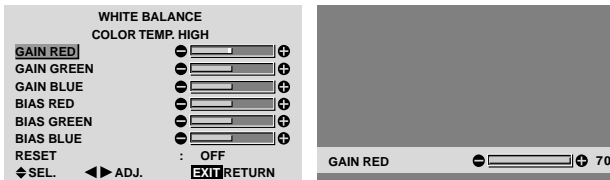
Example: Adjusting the "GAIN RED" of "HIGH" color temperature

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

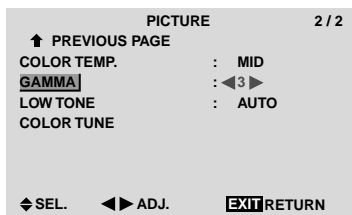
### Changing the Gamma Curve

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 (1/2), then perform the following operations.

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).

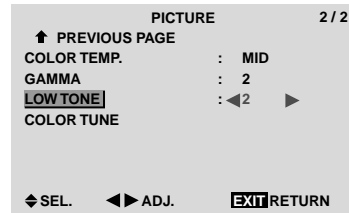
### Making the Low Tone adjustments

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

Example: Setting "2"

Set "ADVANCED OSM" to "ON" in the MAIN MENU (1/2), then perform the following operations.

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.

Such adjustments will not affect the other colors.

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

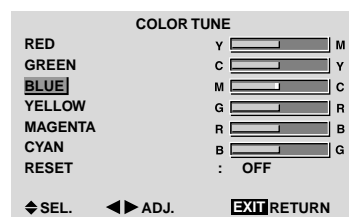
Example: Adjusting the color tune for blue

Set "ADVANCED OSM" to "ON" in the MAIN MENU (1/2), then perform the following operations.

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: Makes red's adjustment

GREEN: Makes green's adjustment

BLUE: Makes blue's adjustment

YELLOW: Makes yellow's adjustment

MAGENTA: Makes magenta's adjustment

CYAN: Makes cyan's adjustment

RESET: Resets settings to the factory default value.

Use ◀ and ▶ buttons to select "ON", then press the MENU/ENTER button.

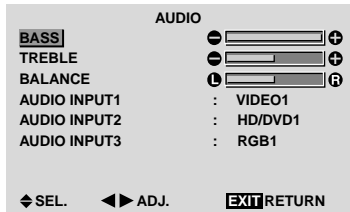
## Audio Settings Menu

### 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.

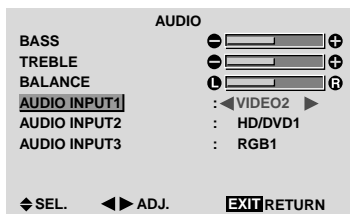
### Setting the allocation of the audio connectors

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

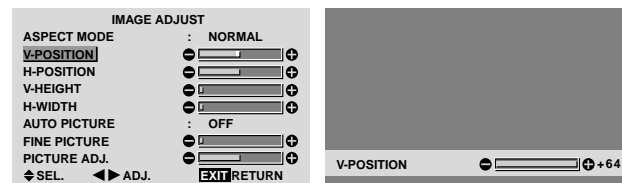
On "V-POSITION" of "IMAGE ADJUST" menu, adjust the position.

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

**NORMAL** ↔ **FULL**

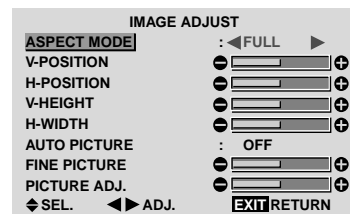
\* The mode can also be switched by pressing the WIDE button on the remote control.

\* 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. (Except for STADIUM mode)

**H-WIDTH:** Adjusts the horizontal size of the image. (Except for STADIUM mode)

**FINE PICTURE\*:** Adjusts for flickering.

**PICTURE ADJ.\*:** Adjusts for striped patterns on the image.

\* 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

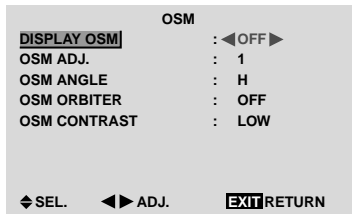
This sets the position of the menu, the display format (horizontal or vertical) etc.

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 on-screen menu appears.

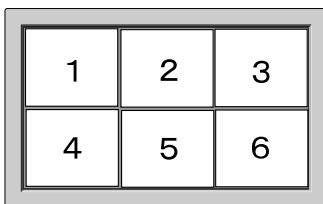
OFF: The on-screen menu does not appear.

If you press the DISPLAY button on the remote control for more than 3 seconds the main menu will appear and can be set (although it is not ON).

#### ■ OSM ADJUST settings

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

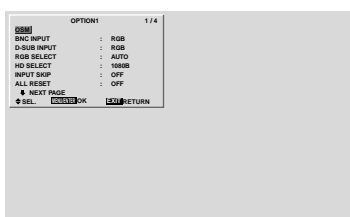
The position can be set between 1 to 6.



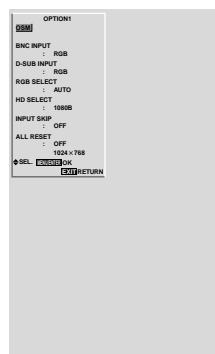
#### ■ OSM ANGLE settings

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

"H"



"V"



#### ■ 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.

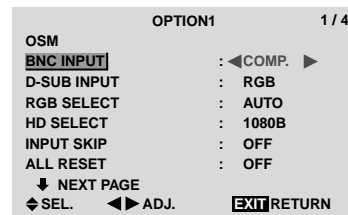
LOW: OSM brightness is set to lower.

## Setting the BNC connectors

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 E-8.

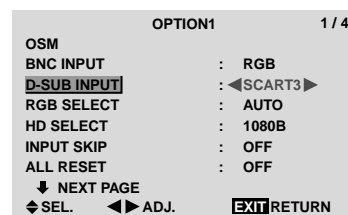
SCART2: Use the 3BNC terminals for RGB and the VIDEO1 terminal for composite sync. See page E-8.

## 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.

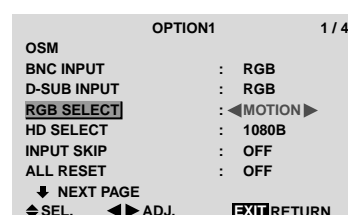
SCART3: Use the D-SUB terminal for RGB signal fed from SCART. See page E-8.

## 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 "MOTION"

On "RGB SELECT" of "OPTION1" menu, select "MOTION".



**Information****■ RGB SELECT modes**

One of these 7 modes must be selected in order to display the following signals correctly.

**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 E-2 of Model Information.

**STILL:** To display VESA standard signals. (Use this mode for a still image from a computer.)

**MOTION:** The video signal (from a scan converter) will be converted to RGB signals to make the picture more easily viewable. (Use this mode for a motion image from a computer.)

**WIDE1:** When an 852 dot × 480 line signal with a horizontal frequency of 31.7kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE1.

**WIDE2:** When an 848 dot × 480 line signal with a horizontal frequency of 31.0 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE2.

**WIDE3:** When an 1920 dot × 1200 line signal with a horizontal frequency of 74.0 kHz is input, the image may be compressed horizontally. To prevent this, set RGB SELECT to WIDE3.

**DTV:** Set this mode when watching digital broadcasting (480P).

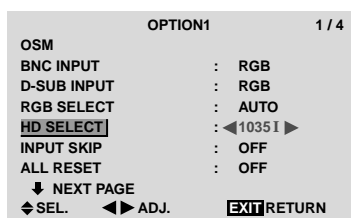
See page E-2 of Model Information for the details of the above settings.

**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 “1080B” 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

**1035I:** Japanese “High Vision” signal format

**1080A:** Special Digital broadcasts (for example : DTC100)

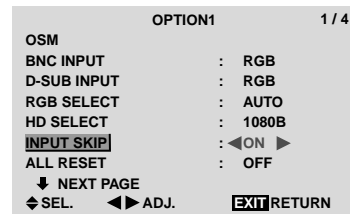
**Setting the Input Skip**

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.

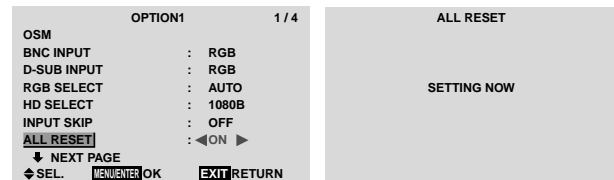
\* “SETTING NOW” will appear during the input search.

**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 E-16 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.



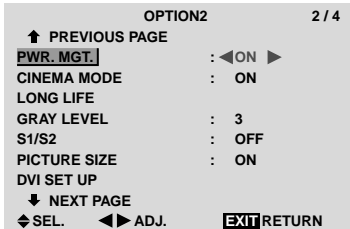
## Option2 Settings Menu

### 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  
Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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

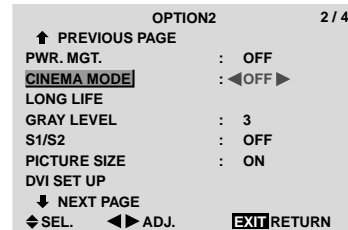
The film image is automatically discriminated and projected in an image mode suited to the picture.

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

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

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

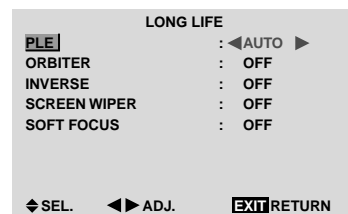
### Reducing burn-in of the screen

The brightness of the screen, the position of the picture, positive/negative mode and screen wiper are adjusted to reduce burn-in of the screen.

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

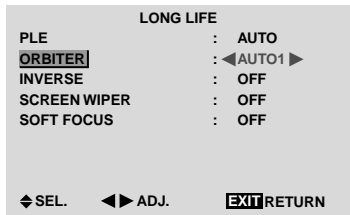
The brightness level decreases in the order of LOCK 1, 2, 3. LOCK 3 provides minimum brightness.

**ORBITER**

Use this to set the picture shift.

Example: Setting "ORBITER" to "AUTO1"

On "ORBITER" of "LONG LIFE" menu, select "AUTO1".

**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**

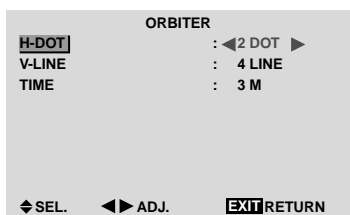
Set the amount of shift and the time between movement.

Example: Setting so that the picture moves 2 dots horizontally and 3 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.

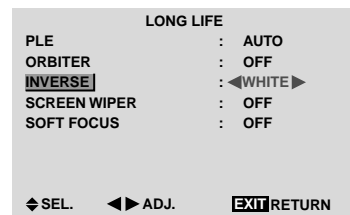
TIME: Interval of 1~5 minutes (1 horizontal dot or 1 vertical line per interval).

**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**

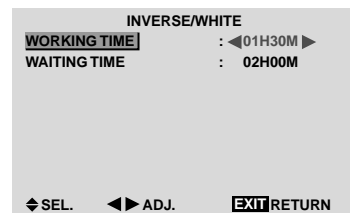
Set a time duration.

Example: Setting so 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 be STAND BY.

[Example]

WORKING TIME: 01H30M

WAITING TIME: 02H00M

←----- 2 H -----\*----- 1.5 H -----\*-----  
Start INVERSE/WHITE Start STAND BY

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

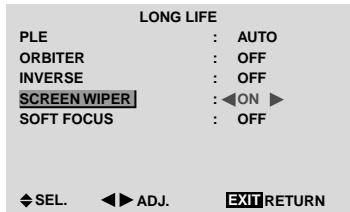
Set the hours of the working time to 0H and the minutes to 0M. "ON" will be displayed.

## 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

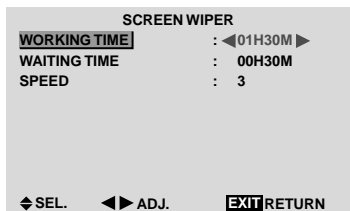
Set a time duration and the speed.

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"...

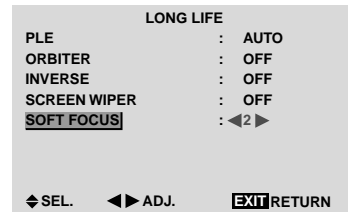
Set the hours of the working time to 0H and the minutes to 0M. "ON" will be displayed.

## 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.

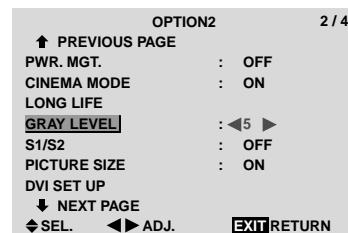
## Setting the gray level for the sides of the screen

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"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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

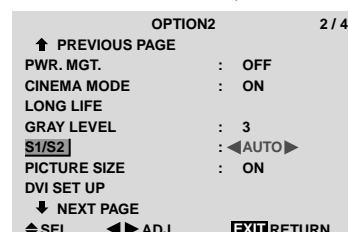
If the S-video signal contains screen size information, the image will be automatically adjusted to fit the screen when this S1/S2 is set to AUTO.

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

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

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

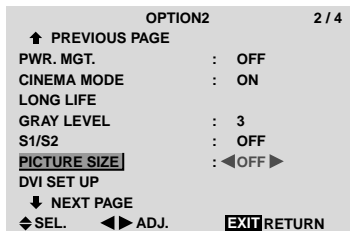
**Setting the picture size for RGB input signals**

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

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

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

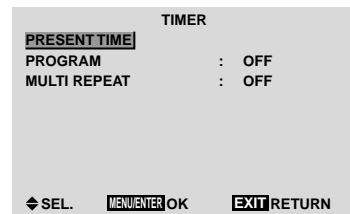
**Option3 Settings Menu****Using the timer**

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

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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 return to the TIMER menu.

\* 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.

| PROGRAM TIMER                |           |           |       |          |
|------------------------------|-----------|-----------|-------|----------|
| DATE                         | ON        | OFF       | INPUT | FUNCTION |
| MON                          | 08 : 30   | 10 : 30   | RGB2  | INVERSE  |
| -                            | - : - : - | - : - : - | -     | -        |
| -                            | - : - : - | - : - : - | -     | -        |
| -                            | - : - : - | - : - : - | -     | -        |
| -                            | - : - : - | - : - : - | -     | -        |
| -                            | - : - : - | - : - : - | -     | -        |
| -                            | - : - : - | - : - : - | -     | -        |
| -                            | - : - : - | - : - : - | -     | -        |
| ◀▶SEL. ZOOM ADJ. EXIT RETURN |           |           |       |          |

- 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/DVD1~2" and "RGB1~3".

| PROGRAM TIMER                |           |           |         |          |
|------------------------------|-----------|-----------|---------|----------|
| DATE                         | ON        | OFF       | INPUT   | FUNCTION |
| MON                          | 08 : 30   | 10 : 30   | MULTI   | INVERSE  |
| TUE                          | - : - : - | 18 : 15   | -       | -        |
| SAT                          | 08 : 30   | 12 : 15   | VIDEO1  | WHITE    |
| *FRI                         | 08 : 30   | 10 : 00   | HD/DVD1 | -        |
| -                            | - : - : - | - : - : - | -       | -        |
| SAT                          | 08 : 30   | 12 : 15   | VIDEO1  | WHITE    |
| *                            | 15 : 30   | 16 : 00   | RGB1    | -        |
| ◀▶SEL. ZOOM ADJ. EXIT RETURN |           |           |         |          |

**PICTURE IN PICTURE**

| PROGRAM TIMER             |               |
|---------------------------|---------------|
| MULTI SCREEN SETTING      |               |
| MULTI MODE                | : BOTTOM LEFT |
| INPUT MODE                |               |
| MAIN                      | : RGB/PC1     |
| SUB                       | : VIDEO1      |
| ◀▶SEL. ◀▶ADJ. EXIT RETURN |               |

**SIDE BY SIDE**

| PROGRAM TIMER             |                 |
|---------------------------|-----------------|
| MULTI SCREEN SETTING      |                 |
| MULTI MODE                | : SIDE BY SIDE1 |
| INPUT MODE                |                 |
| LEFT                      | : RGB/PC1       |
| RIGHT                     | : VIDEO1        |
| ◀▶SEL. ◀▶ADJ. EXIT RETURN |                 |

**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**

| PROGRAM TIMER                |           |           |         |          |
|------------------------------|-----------|-----------|---------|----------|
| DATE                         | ON        | OFF       | INPUT   | FUNCTION |
| MON                          | 08 : 30   | 10 : 30   | RGB2    | INVERSE  |
| TUE                          | - : - : - | 18 : 15   | -       | -        |
| SAT                          | 08 : 30   | 12 : 15   | VIDEO1  | WHITE    |
| *FRI                         | 08 : 30   | 10 : 00   | HD/DVD1 | -        |
| -                            | - : - : - | - : - : - | -       | -        |
| SAT                          | 08 : 30   | 12 : 15   | VIDEO1  | WHITE    |
| *                            | 15 : 30   | 16 : 00   | RGB1    | -        |
| ◀▶SEL. ZOOM ADJ. EXIT RETURN |           |           |         |          |

- 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.

**MULTI REPEAT**

Two repeat timers are available. Each timer has MULTI MODE, WORK TIME and INPUT MODE functions.

Example:

TIMER1 is set to display RGB1 (MAIN) and VIDEO1 (SUB) for 4 hours in picture-in-picture mode. TIMER2 is set to display RGB3 (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.

| TIMER                     |         |
|---------------------------|---------|
| PRESENT TIME              |         |
| PROGRAM                   | : OFF   |
| MULTI REPEAT              | : ◀OFF▶ |
| ◀▶SEL. ◀▶ADJ. EXIT RETURN |         |

| MULTI REPEAT TIMER        |             |
|---------------------------|-------------|
| 1 MULTI MODE              | : ◀BTM LFT▶ |
| WORK TIME                 | : 04H00M    |
| INPUT MODE                |             |
| MAIN                      | : RGB/PC1   |
| SUB                       | : VIDEO1    |
| 2 MULTI MODE              | : S BY S1   |
| WORK TIME                 | : 02H30M    |
| INPUT MODE                |             |
| LEFT                      | : RGB/PC3   |
| RIGHT                     | : HD/DVD1   |
| ◀▶SEL. ◀▶ADJ. EXIT RETURN |             |

**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

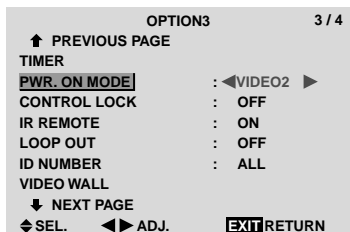
This function sets the input mode at the time the power is switched on.

Example: Setting "VIDEO2"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

On "PWR. ON MODE" of "OPTION3" menu, select "VIDEO2".

The available sources depend on the settings of input.



### Information

#### ■ PWR. ON MODE 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.

DVD2, 3: DVD input mode.

MULTI: Multi screen mode.

Follow the procedure used for PROGRAM TIMER. See page E-27.

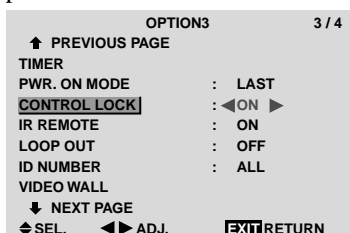
## Enabling/disabling the front panel controls

This function enables/disables the front panel controls.

Example: Setting "ON"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

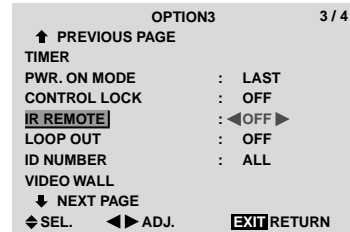
## Enabling/disabling remote control wireless transmission

This function enables/disables remote control wireless transmission.

Example: Setting "OFF"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

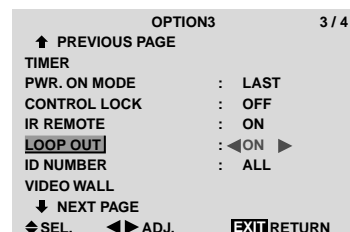
## Loop Out setting

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

Example: Setting "ON"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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 E-5.

#### ■ 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.

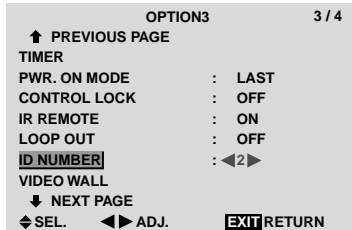
### ID number setting

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"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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.

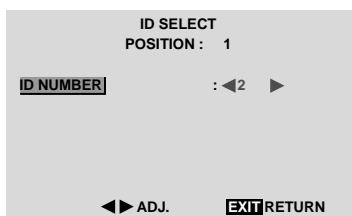
#### To set the ID number for the remote control

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 4-25 video wall.

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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 4-25 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 (2x2 video wall)

9: 9 Screens (3x3 video wall)

16: 16 Screens (4x4 video wall)

25: 25 Screens (5x5 video wall)

\* When you select 4-25, set the VIDEO WALL POSITION.

### VIDEO WALL POSITION

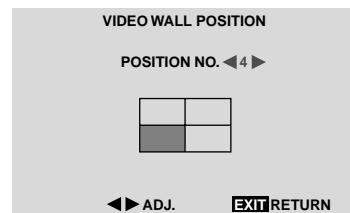
Set the position of each display.

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.

4 Screens

|       |       |
|-------|-------|
| 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 |

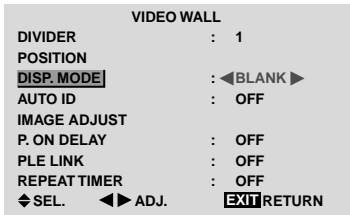


**DISP. MODE**

Select the screen mode from between two options (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

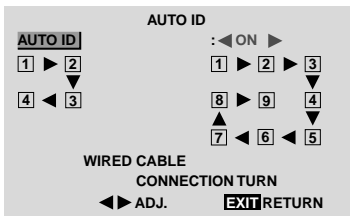
**AUTO ID**

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.

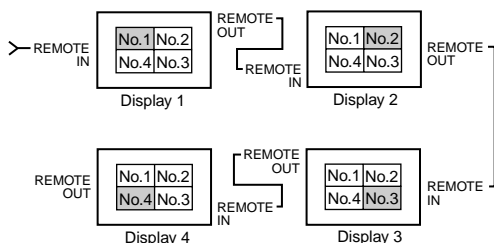
On "AUTO ID" of "VIDEO WALL" menu, select "ON", then press the MENU/ENTER button.



**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 2x2 or 3x3 video wall is selected.



**OFF:** Disables Auto ID function.

**IMAGE ADJUST**

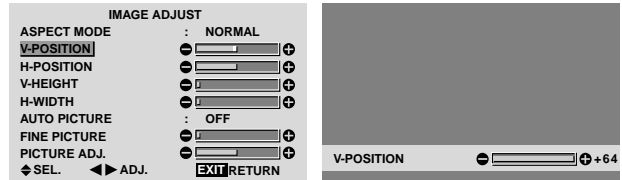
The position of the image can be adjusted and flickering of the image can be corrected.

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.



**Information**

■ **IMAGE ADJUST settings**

These are the same functions as the IMAGE ADJUST menu on page E-20.

**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 16 and 25 screens)

**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.

| VIDEO WALL      |                    |
|-----------------|--------------------|
| DIVIDER         | : 1                |
| POSITION        |                    |
| DISP. MODE      | : SPLIT            |
| AUTO ID         | : OFF              |
| IMAGE ADJUST    |                    |
| P. ON DELAY     | : OFF              |
| <b>PLE LINK</b> | : ◀ON▶             |
| REPEAT TIMER    | : OFF              |
| ◀SEL. ▶ADJ.     | <b>EXIT</b> RETURN |

### Information

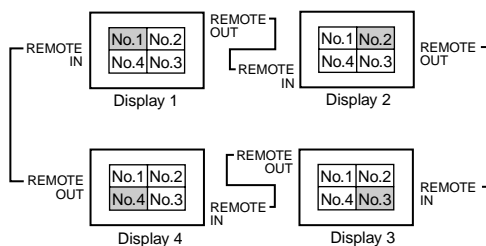
#### ■ PLE LINK settings

**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.

| REPEAT TIMER     |                    |
|------------------|--------------------|
| 1 DIVIDER        | : 1                |
| SOURCE           | : VIDEO1           |
| WORK TIME        | : 00H03M           |
| 2 DIVIDER        | : 4                |
| SOURCE           | : RGB1             |
| <b>WORK TIME</b> | : ◀00H06M▶         |
| ◀SEL. ▶ADJ.      | <b>EXIT</b> RETURN |

### 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

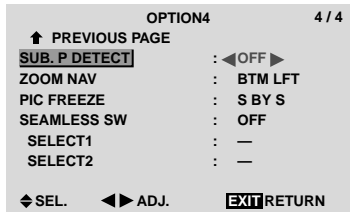
### Erasing the sub screen image when there is no input signal

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

Example: Set to "OFF"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

On "SUB. P DETECT" of "OPTION4" menu, select "OFF".



### Information

#### ■ SUB. P DETECT Function

- \* The sub screen disappears when the input signal is lost.
- \* 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 settings

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

OFF: Turns off the SUB. P DETECT function.

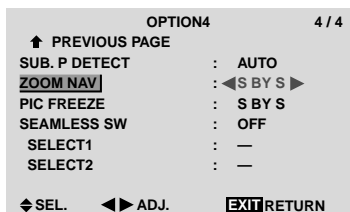
### Displaying the entire image during DIGITAL ZOOM operations

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"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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



### Information

#### ■ ZOOM NAV Function

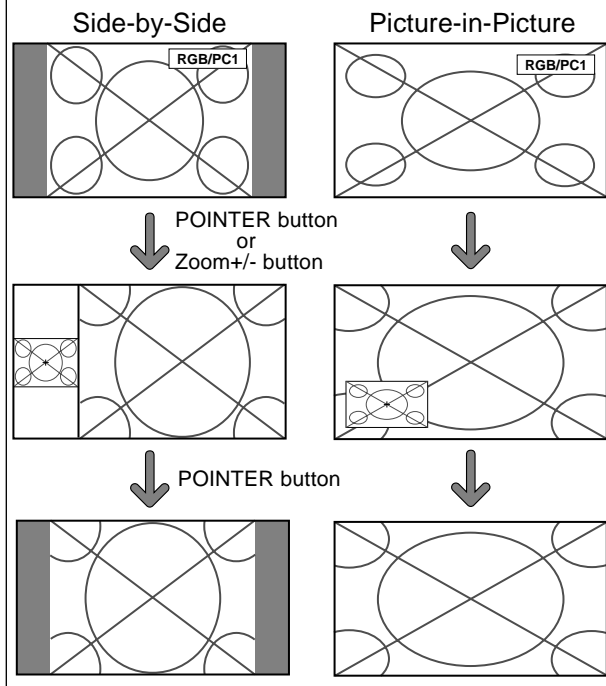
- \* This feature is available only for RGB1 or RGB2 input signals.
- \* This feature does not function during split screen mode.
- \* This feature does not function while PIC FREEZE is operating.
- \* Providing a 2-screen display will cancel this function.

### ■ 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 of side-by-side mode.

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



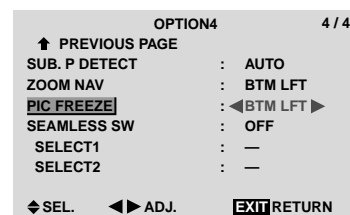
### Displaying still images in the sub screen

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"

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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



### Information

#### ■ PIC FREEZE Function

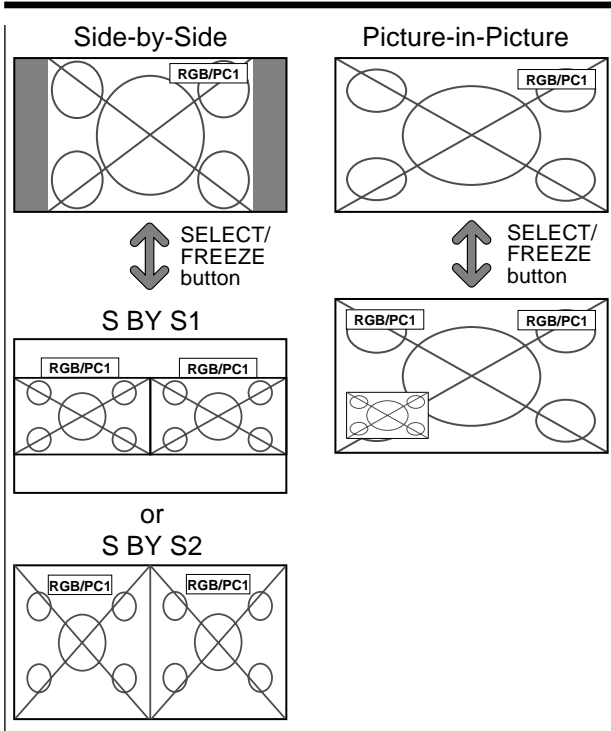
- \* This feature is available only for RGB1 or RGB2 input signals.
- \* This feature does not function during split screen mode.
- \* Digital zoom is not available while this function is operating.
- \* A further press of the SELECT/FREEZE button while this function is operating will cancel this function.
- \* 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.



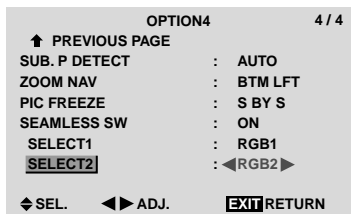
**Switching the input source quickly**

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.

Set "ADVANCED OSM" to "ON" in the main menu (1/2), then perform the following operations.

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 E-13.
- \* 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.

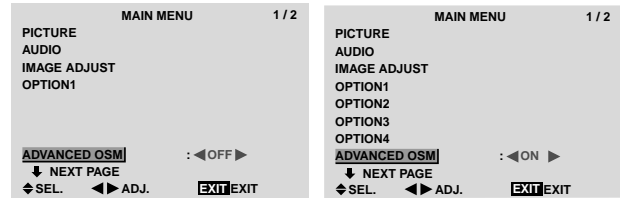
**Advanced OSM Settings Menu**

**Setting the menu mode**

This allows you to access full menu items. 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 eight 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 | ITALIANO ..... | Italian |
| DEUTSCH .....  | German  | SVENSKA .....  | Swedish |
| FRANÇAIS ..... | French  | 中文 .....       | Chinese |
| ESPAÑOL .....  | Spanish | РУССКИЙ .....  | Russian |

## Color System Settings Menu

### Setting the video signal format

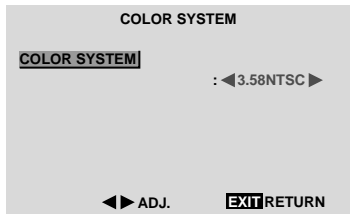
Use these operations to set the color systems of composite video signals or Y/C input signals.

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.

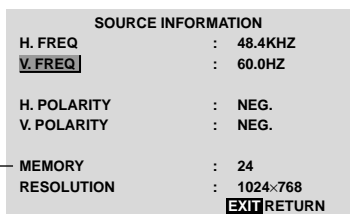
## Source Information Menu

### 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.

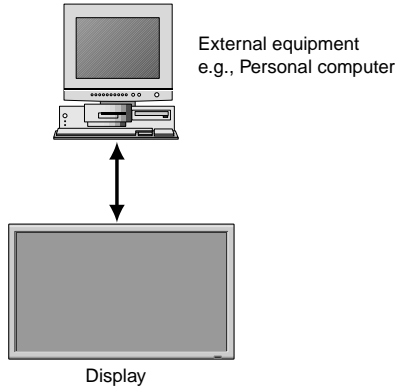
# External Control Pin Assignments

## Application

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

## Connections

Connections are made as described below.

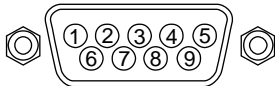


Connector on the plasma monitor side: EXTERNAL CONTROL connector.

Use a crossed (reverse) cable.

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

| Pin No. | Pin Name             | Pin No. | Pin Name             |
|---------|----------------------|---------|----------------------|
| 1       | No Connection        | 6       | DSR (DCE side ready) |
| 2       | RXD (Receive data)   | 7       | RTS (Ready to send)  |
| 3       | TXD (Transmit data)  | 8       | CTS (Clear to send)  |
| 4       | DTR (DTE side ready) | 9       | No connection        |
| 5       | GND                  |         |                      |



## Communication Parameters

- |                          |              |
|--------------------------|--------------|
| (1) Communication system | Asynchronous |
| (2) Interface            | RS-232C      |
| (3) Baud rate            | 9600 bps     |
| (4) Data length          | 8 bits       |
| (5) Parity               | Odd          |
| (6) Stop bit             | 1 bit        |
| (7) Communication code   | Hex          |

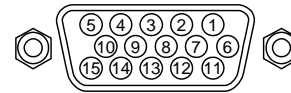
## External Control Codes (Reference)

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

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

## 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                        |

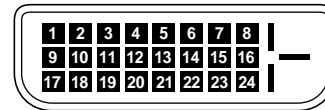
## DVI-D 24-pin connector (Digital)

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   |
|---|--|--|
| Mechanical sound is heard.  | <ul style="list-style-type: none"> <li>• Maybe the sound from the cooling fans used to prevent over heating.</li> </ul>  |  |
| The unit emits a crackling sound.   | <ul style="list-style-type: none"> <li>• Are the image and sound normal?</li> </ul>  | <ul style="list-style-type: none"> <li>• 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.</li> </ul>   |
| Picture is disturbed.<br>Sound is noisy.<br>Remote control operates erroneously.    | <ul style="list-style-type: none"> <li>• Is a connected component set directly in front or at the side of the display?</li> </ul>  | <ul style="list-style-type: none"> <li>• Leave some space between the display and the connected components.</li> </ul>   |
| The remote control does not work.   | <ul style="list-style-type: none"> <li>• Are the remote control's batteries worn out?</li> <li>• Is IR REMOTE set to ON?</li> <li>• Has an ID number been set for the main unit?</li> </ul>  | <ul style="list-style-type: none"> <li>• Replace both batteries with new ones.</li> <li>• Set IR REMOTE OFF on OPTION3 menu.</li> <li>• Set an ID number with the ID SELECT button, or set the ID number to ALL.</li> </ul>  |
| Monitor's power does not turn on when the remote control's power button is pressed. | <ul style="list-style-type: none"> <li>• Is the monitor's power cord plugged into a power outlet?</li> <li>• Are all the monitor's indicators off?</li> <li>• Are the remote control's batteries worn out?</li> <li>• Is IR REMOTE set to OFF?</li> <li>• Has an ID number been set for the main unit?</li> </ul>  | <ul style="list-style-type: none"> <li>• Plug the monitor's power cord into a power outlet.</li> <li>• Press the power button on the monitor to turn on the power.</li> <li>• Replace both batteries with new ones.</li> <li>• Set IR REMOTE ON.</li> <li>• Set an ID number with the ID SELECT button, or set the ID number to ALL.</li> </ul>                                |
| Monitor does not operate when the remote control's buttons are pressed.             | <ul style="list-style-type: none"> <li>• Is the remote control pointed at the monitor, or is there an obstacle between the remote control and the monitor?</li> <li>• Is direct sunlight or strong artificial light shining on the monitor's remote control sensor?</li> <li>• Are the remote control's batteries worn out?</li> <li>• The remote cable is plugged into the REMOTE IN terminal (Wired).</li> </ul> | <ul style="list-style-type: none"> <li>• Point the remote control at the monitor's remote control sensor when pressing buttons, or remove the obstacle.</li> <li>• Eliminate the light by closing curtains, pointing the light in a different direction, etc.</li> <li>• Replace both batteries with new ones.</li> <li>• Unplug the remote cable from the monitor.</li> </ul> |
| The front panel buttons of the main unit do not function.                           | <ul style="list-style-type: none"> <li>• The front panel buttons do not function during Control Lock.</li> </ul>   | <ul style="list-style-type: none"> <li>• Set the Control Lock to OFF.</li> </ul>   |
| No sound or picture is produced.  | <ul style="list-style-type: none"> <li>• Is the monitor's power cord plugged into a power outlet?</li> </ul>   | <ul style="list-style-type: none"> <li>• Plug the monitor's power cord into a power outlet.</li> </ul>   |
| Picture appears but no sound is produced.   | <ul style="list-style-type: none"> <li>• Is the volume set at the minimum?</li> <li>• Is the mute mode set?</li> <li>• Are the speakers properly connected?</li> <li>• Is AUDIO INPUT set correctly?</li> </ul>  | <ul style="list-style-type: none"> <li>• Increase the volume.</li> <li>• Press the remote control's MUTE button.</li> <li>• Connect the speakers properly.</li> <li>• Set AUDIO INPUT on the AUDIO menu correctly.</li> </ul>  |
| Poor picture with VIDEO signal input.   | <ul style="list-style-type: none"> <li>• Improper control setting.</li> <li>• Local interference.</li> <li>• Cable interconnections.</li> <li>• Input impedance is not correct level.</li> </ul>   | <ul style="list-style-type: none"> <li>• Adjust picture control as needed.</li> <li>• Try another location for the monitor.</li> <li>• Be sure all connections are secure.</li> </ul>  |
| Poor picture with RGB signal input.   | <ul style="list-style-type: none"> <li>• Improper control setting.</li> <li>• Incorrect 15 PIN connector pin connections.</li> </ul>   | <ul style="list-style-type: none"> <li>• Adjust picture controls as needed.</li> <li>• Check pin assignments and connections.</li> </ul>   |
| Tint is poor or colors are weak.  | <ul style="list-style-type: none"> <li>• Are the tint and colors properly adjusted?</li> </ul>   | <ul style="list-style-type: none"> <li>• Adjust the tint and color (under PICTURE).</li> </ul>   |
| Nothing appears on screen.  | <ul style="list-style-type: none"> <li>• Is the computer's power turned on?</li> <li>• Is a source connected?</li> <li>• Is the power management function in the standby or off mode?</li> <li>• Is LOOP OUT set to ON?</li> </ul>   | <ul style="list-style-type: none"> <li>• Turn on the computer's power.</li> <li>• Connect source to the monitor.</li> <li>• Operate the computer (move the mouse, etc.).</li> <li>• Set LOOP OUT OFF.</li> </ul>   |
| Part of picture is cut off or picture is not centered.                              | <ul style="list-style-type: none"> <li>• Is the position adjustment appropriate?</li> </ul>  | <ul style="list-style-type: none"> <li>• Adjust the IMAGE ADJUST properly.</li> </ul>  |
| Image is too large or too small.  | <ul style="list-style-type: none"> <li>• Is the screen size adjustment appropriate?</li> </ul>   | <ul style="list-style-type: none"> <li>• Press the WIDE button on the remote control and adjust properly.</li> </ul>   |
| Picture is unstable.  | <ul style="list-style-type: none"> <li>• Is the computer's resolution setting appropriate?</li> </ul>  | <ul style="list-style-type: none"> <li>• Set to the proper resolution.</li> </ul>  |
| POWER/STANDBY indicator is lighted in red.  | <ul style="list-style-type: none"> <li>• Horizontal and / or vertical sync signal is not present when the Intelligent Power Manager control is on.</li> </ul>  | <ul style="list-style-type: none"> <li>• Check the input signal.</li> </ul>  |
| POWER/STANDBY indicator is blinking in red.   | <ul style="list-style-type: none"> <li>• The temperature inside the main unit has become too high and has activated the protector.</li> </ul>  | <ul style="list-style-type: none"> <li>• Promptly switch off the power of the main unit and wait until the internal temperature drops. See*1.</li> </ul>   |
| POWER/STANDBY indicator is blinking in green and red, or green.                     |  | <ul style="list-style-type: none"> <li>• Promptly switch off the power of the main unit. See *2.</li> </ul>  |

#### \*1 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.

#### \*2 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.