

USER MANUAL

ProLite

LCD Monitor

ENGLISH

ProLite L460W

Thank you very much for choosing the iiyama LCD monitor.

We recommend that you take a few minutes to read carefully through this brief but comprehensive manual before installing and switching on the monitor. Please keep this manual in a safe place for your future reference.



FCC DECLARATION OF CONFORMITY

Model Number: PLL460W
Trade Name: iiyama
Responsible party: IIYAMA North America, Inc.
Address: 65 West Street Road, Suite 101B, Warminster, PA18974 U.S.A.
Telephone number: 215-682-9050

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for Class B Personal Computers and peripherals, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the device is operated in a residential environment. This device generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If you determine the device does cause harmful interference to radio or television reception (this may be determined by monitoring the interference while turning the device off and on), you are encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

To meet the FCC requirements, you should use a signal cable with ferrite core at both ends.

CAUTION

Changes or modifications not expressly approved by iiyama could void the users authority to operate the device under FCC compliance regulations.

CANADIAN DEPARTMENT OF COMMUNICATIONS COMPLIANCE STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulation of the Canadian department of communications.

CE MARKING DECLARATION OF CONFORMITY

This LCD monitor complies with the requirements of the EC Directive 89/336/EEC "EMC Directive" and 73/23/EEC "Low Voltage Directive" as amended by Directive 93/68/EEC.

The electro-magnetic susceptibility has been chosen at a level that gives correct operation in residential areas, business and light industrial premises and small-scale enterprises, inside as well as outside of the buildings. All places of operation are characterised by their connection to the public low voltage power supply system.

- We reserve the right to change specifications without notice.
- All trademarks used in this user manual are the property of their respective owners.
- As an ENERGY STAR® Partner, iiyama has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.
- This manual is printed on recycled paper.

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FOR YOUR SAFETY

SAFETY PRECAUTIONS

WARNING

STOP OPERATING THE MONITOR WHEN YOU SENSE TROUBLE

If you notice any abnormal phenomena such as smoke, strange sounds or fumes, unplug the monitor and contact your dealer or iiyama service center immediately. Further use may be dangerous and can cause fire or electric shock.

NEVER REMOVE THE CABINET

High voltage circuits are inside the monitor. Removing the cabinet may expose you to the danger of fire or electric shock.

DO NOT PUT ANY OBJECT INTO THE MONITOR

Do not put any solid objects or liquids such as water into the monitor. In case of an accident, unplug your monitor immediately and contact your dealer or iiyama service center. Using the monitor with any object inside may cause fire, electric shock or damage.

INSTALL THE MONITOR ON A FLAT, STABLE SURFACE

The monitor may cause an injury if it falls or is dropped.

DO NOT USE THE MONITOR NEAR WATER

Do not use where water may be splashed or spilt onto the monitor as it may cause fire or electric shock.

OPERATE UNDER THE SPECIFIED POWER SUPPLY

Be sure to operate the monitor only with the specified power supply. Use of an incorrect voltage will cause malfunction and may cause fire or electric shock.

PROTECT THE CABLES

Do not pull or bend the power cable and signal cable. Do not place the monitor or any other heavy objects on the cables. If damaged, the cables may cause fire or electric shock.

ADVERSE WEATHER CONDITIONS

It is advisable not to operate the monitor during a heavy thunder storm as the continual breaks in power may cause malfunction. It is also advised not to touch the plug in these circumstances as it may cause electric shock.

CAUTION

INSTALLATION LOCATION

Do not install the monitor where sudden temperature changes may occur, or in humid, dusty or smoky areas as it may cause fire, electric shock or damage. You should also avoid areas where the sun shines directly on the monitor.

DO NOT PLACE THE MONITOR IN A HAZARDOUS POSITION

The monitor may topple and cause injury if not suitably located. Please also ensure that you do not place any heavy objects on the monitor, and that all cables are routed such that children may not pull the cables and possibly cause injury.

MAINTAIN GOOD VENTILATION

Ventilation slots are provided to keep the monitor from overheating. Covering the slots may cause fire. To allow adequate air circulation, place the monitor at least 10 cm (or 4 inches) from any walls. Ventilation slots on the back of the cabinet will be blocked and the monitor may overheat if the stand is removed. This may cause fire or damage. Operating the monitor on its back, side, upside down or on a carpet or any other soft material may also cause damage.

DISCONNECT THE CABLES WHEN YOU MOVE THE MONITOR

When you move the monitor, turn off the power switch, unplug the monitor and be sure the signal cable is disconnected. If you do not disconnect them, it may cause fire or electric shock. It is recommended that two people are used when moving the monitor.

UNPLUG THE MONITOR

If the monitor is not in use for a long period of time it is recommended that it is left unplugged to avoid accidents.

HOLD THE PLUG WHEN DISCONNECTING

To disconnect the power cable or signal cable, always pull it by the plug. Never pull on the cable itself as this may cause fire or electric shock.

DO NOT TOUCH THE PLUG WITH WET HANDS

Pulling or inserting the plug with wet hands may cause electric shock.

DO NOT TURN ON AND OFF THE POWER FREQUENCY

Do not alternate between turning the power ON and OFF frequency as it may cause damage.

OTHERS

ERGONOMIC RECOMMENDATIONS

To eliminate eye fatigue, do not operate the monitor against a bright background or in a dark room. When using the monitor over a prolonged time, a ten minute break every hour is recommended as looking at the screen continuously can cause eye strain.

SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitors and do not indicate a problem.

NOTE

- When you first turn on the LCD monitor, the picture may not fit in the display area because of the type of computer that is used. In this case, adjust the picture position to its correct position.
- Due to the nature of the backlight, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours. There is the possibility that the previous screen has been fixed. Pay attention sufficient when you use LCD Monitor.
- Contact your dealer or iiyama service center for the backlight replacement when the screen is dark, flickering or not lighting up. Never attempt to replace it by yourself.

CUSTOMER SERVICE

NOTE

- The fluorescent light used in the LCD monitor may have to be periodically replaced. For the warranty coverage on this component, please check with local iiyama service center.
- If you have to return your unit for service and the original packaging has been discarded, please contact your dealer or iiyama service center for advice or replacement packaging.

CLEANING

WARNING

- If you drop any materials or liquids such as water into the monitor when cleaning, unplug the power cable immediately and contact your dealer or iiyama service center.

CAUTION

- For safety reasons, turn off the power switch and unplug the monitor before you clean it.

NOTE

- To protect the LCD panel, do not scratch or rub the screen with a hard object.
- Never use any of the following strong solvents. These will damage the cabinet and the LCD screen.

Thinner	Spray-type cleaner
Benzine	Wax
Abrasive cleaner	Acid or Alkaline solvent

- Touching the cabinet with any product made from rubber or plastic for a long time may cause degeneration or loss of paint on the cabinet.

CABINET

Stains can be removed with a cloth lightly moistened with a mild detergent solvent. Then wipe the cabinet with a soft dry cloth.

LCD

Periodic cleaning with a soft dry cloth is recommended.

SCREEN

Don't use tissue paper etc. because these will damage the LCD screen.

BEFORE YOU OPERATE THE MONITOR

FEATURES

- ◆ 46" Wide Screen TFT Color LCD Monitor
- ◆ Supports Resolutions up to 1920 × 1200 (down scale)
- ◆ Super Wide Viewing Angle and High Contrast
- ◆ Digital Character Smoothing
- ◆ Automatic Set-up
- ◆ Plug & Play VESA DDC2B/DDC-CI Compliant, Windows® 95/98/2000/Me/XP Compliant
- ◆ Power Management (ENERGY STAR® and VESA DPMS Compliant)
- ◆ Digital Input for Clear Display
- ◆ RS-232C Inter face Control
- ◆ VESA Mounting Standard Compliant

CHECKING THE CONTENTS OF THE PACKAGE

The following accessories are included in your package. Check to see if they are enclosed with the monitor. If anything is missing or damaged, please contact your local iiyama dealer or regional iiyama office.

- | | |
|---------------------------|-----------------------------------|
| ■ Power Cable*1 | ■ D-SUB Signal Cable MB37 |
| ■ DVI-D Signal Cable DV66 | ■ RS-232C Cable SR51 |
| ■ Stand × 2*2 | ■ Screw for Stand (M6×12mm) × 4*2 |
| ■ Remote Control | ■ AA Dry Battery × 2 |
| ■ User Manual | |

CAUTION

*1 The rating of the Power Cable enclosed in 120V area is 10A/125V. If you are using a power supply higher than this rating, then a power cable with a rating of 10A/250V must be used.

However, All guarantees and warranties are void for any problems or damage caused by a power cable not supplied by iiyama.

*2 Only available on PLL460W-BOX

OPTIONAL PARTS

Optional parts as below are available for your LCD monitor. Please contact your local iiyama dealer or regional iiyama office for them. The Video Adapter enables you to connect the video equipment to the monitor.

- Video Adapter OVA3-1 (Video Input)
- Video Adapter OVA3-2 (Analog output)

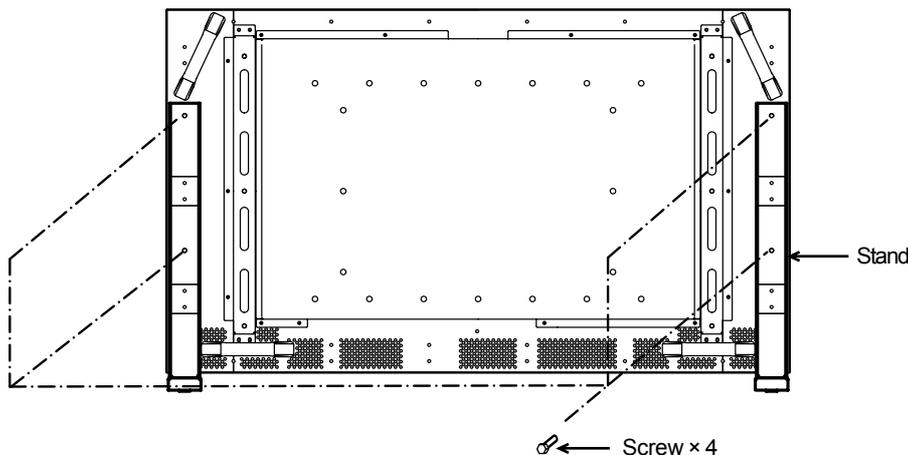
INSTALLATION

CAUTION

- The monitor is heavy. Two person handling is recommended.
- Install the stand on a stable surface. The monitor may cause injury or damage if it falls or is dropped.
- Do not give a strong impact to the monitor. It may cause damage.
- Unplug the monitor before installation to avoid electric shock or damage.

INSTALLATION OF STAND [Only available on PLL460W-B0U]

Install the Stand as shown in the illustration. Tighten the Screw (M6×12mm) to fasten the Stand. Tightening torque is recommended more than 1-1.5N·m (10-15kgf·cm).

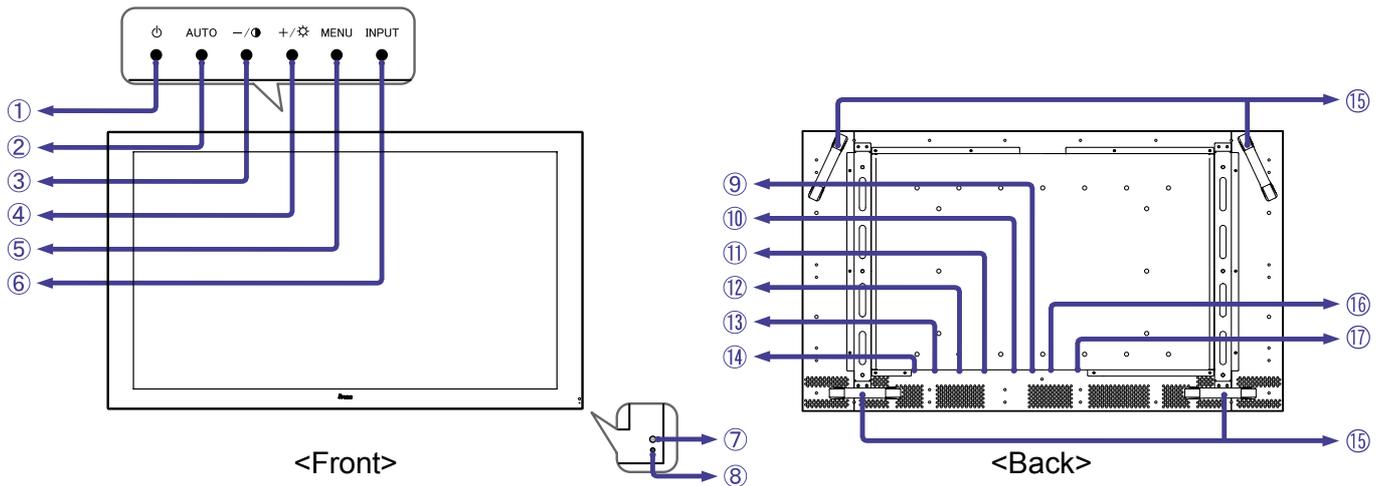


PROCEDURE AND CONDITIONS FOR MONITOR INSTALLATION

Follow the instructions below when installing the monitor to the wall.

- ◆ Environmental temperature and humidity for installation:
Please be sure that an environmental temperature and humidity DO NOT exceed the range described in the page 23 SPECIFICATIONS.
- ◆ Size of screw
 - Width: ϕ 6mm
 - Length: After fasten the bracket with screws, the length of screw in the monitor should be more than 10-15mm.
 - Position: more than 6 points

CONTROLS AND CONNECTORS



- ① Power Button ()
- ② Auto Button (AUTO)
Adjusts Clock, Phase, H-Position and V-Position automatically.

NOTE

- For best results, use the Auto Set-up in conjunction with the test pattern Test.bmp.
(See page 19 for SCREEN ADJUSTMENTS.)
- The screen becomes dark for approximately five seconds during the adjustment.

- ③ - / Contrast Button (- / )
- ④ + / Back Ground Button (+ / )
- ⑤ Menu Button (MENU)
- ⑥ Input Button (INPUT)
- ⑦ Remote Sensor
- ⑧ Power Indicator

NOTE

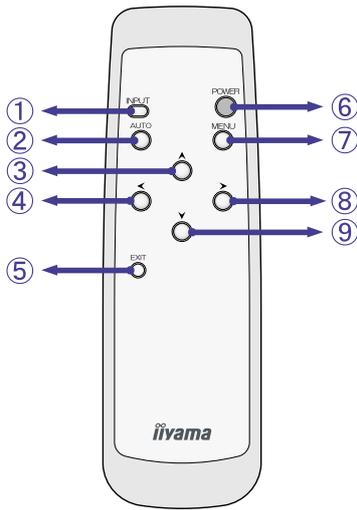
Blue: Normal operation

Orange: Power Management

The monitor enters into power management mode which reduces the power consumption to less than 5W when receiving no horizontal and/or vertical sync signal.

- ⑨ DVI-D 24pin Connector (DVI)
- ⑩ RS-232C Connector (RS-232C)
- ⑪ External Speaker Output Terminal (SPEAKER)
- ⑫ Audio Connector (AUDIO IN)
- ⑬ AC Connector (AC IN)
- ⑭ Main Power Switch (POWER)
- ⑮ Handles
- ⑯ D-SUB mini 15pin Connector (D-SUB)
- ⑰ Optional Video Adapter Slot

<Remote Control>



- ① Input Button (INPUT)
- ② Auto Button (AUTO)
Adjusts Clock, Phase, H-Position and V-Position automatically.

NOTE

- For best results, use the Auto Set-up in conjunction with the test pattern Test.bmp. (See page 19 for SCREEN ADJUSTMENTS.)
- The screen becomes dark for approximately five seconds during the adjustment.

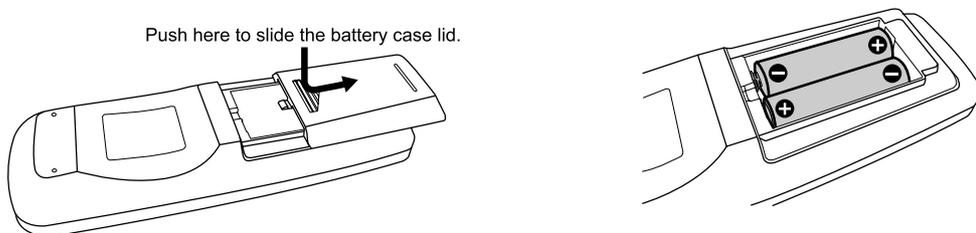
- ③ Zoom + Button (▲)
- ④ – Button / Contrast Button (◀)
- ⑤ Exit Button (EXIT)
- ⑥ Power Button (POWER)
- ⑦ Menu Button (MENU)
- ⑧ + Button / Back Ground Button (▶)
- ⑨ Zoom – Button (▼)

PREPARING THE REMOTE CONTROL

To use the remote control, insert the two dry batteries.

- CAUTION** ■ Do not use any other batteries other than those specified in this manual for the Remote Control. Do not insert old and new batteries together in the Remote Control. Make sure that the terminals match the “+” and “-” indications in the battery compartment. Burst batteries or the electrolyte from these batteries may cause stains, fire or injury.

- ① Slide open the battery case lid on the reverse of the remote control as shown in the illustration.
- ② Take care not to mix up the “+” and “-” terminals.
- ③ Slide closed the battery case lid.



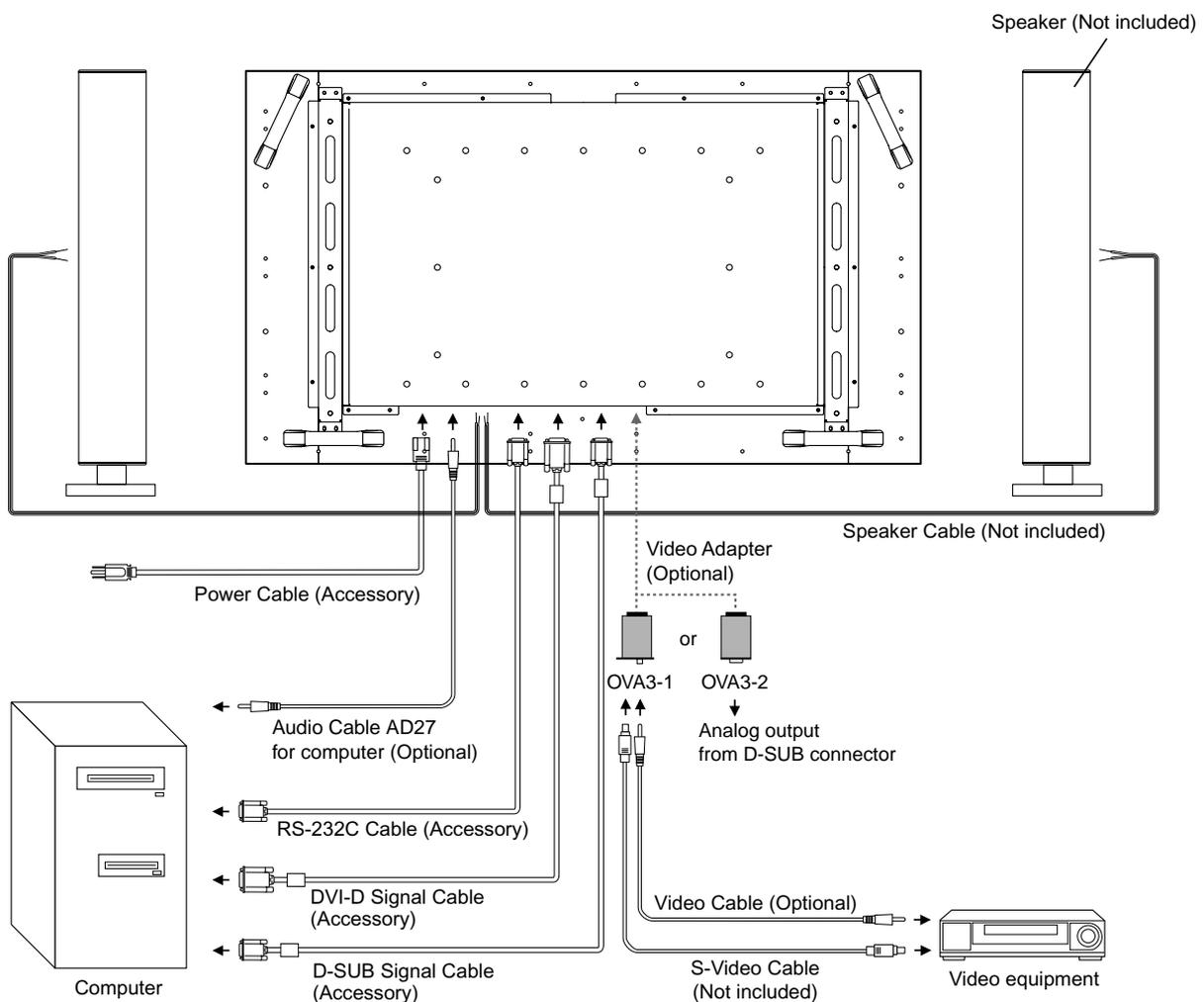
- NOTE** ■ Replace with new batteries when the Remote Control does not work close to the monitor. Use AA dry batteries. Lifetime of the provided battery may be short because it is provided for operation check.
- Operate the Remote Control by pointing it toward the Remote Sensor on the monitor.
 - Other manufacturers remote control will not work with this monitor. Use the provided Remote Control ONLY.

CONNECTING YOUR MONITOR

- ① Ensure that both the computer and the monitor are switched off.
 - ② Connect the computer to the monitor with the signal cable. (See page 26 for CONNECTOR PIN ASSIGNMENT.)
 - ③ Connect the RS-232C cable to the computer while using the RS-232C control feature. (See page 26 for CONNECTOR PIN ASSIGNMENT.)
 - ④ Connect the monitor to the audio equipment with the Audio Cable for computer when using the audio features.
 - ⑤ Connect the monitor to the speakers with the Speaker Cable when using the speakers.
- NOTE** ■ When connecting speakers, rating of speaker should be 10W (4Ω) or equivalent.
- ⑥ Connect the Power Cable to the monitor first and then to the power supply.

- NOTE** ■ The signal cables used for connecting the computer and monitor may vary with the type of computer used. An incorrect connection may cause serious damage to both the monitor and the computer.
- For connection to Macintosh computers, contact your local iiyama dealer or regional iiyama office for a suitable adaptor.
 - Make sure you tighten the finger screws at each end of the signal cable.

[Example of Connection]



COMPUTER SETTING

■ Signal Timing

Change to the desired signal timings listed on page 25 in COMPLIANT TIMING, after you confirm that the picture appears normally.

■ Windows 95/98/2000/Me/XP Plug & Play

The iiyama LCD monitor complies with DDC2B of VESA standard. The Plug & Play function runs on Windows 95/98/2000/Me/XP by connecting the monitor to DDC2B compliant computer with the Signal Cable supplied. Windows 95/98/2000/Me/XP Monitor Information File for iiyama monitors may be necessary for your computer and obtained via the Internet, using the address:

<http://www.iiyama.com> (U.S.A.)

<http://www.iiyama.co.uk> (U.K.)

NOTE

- For additional information on how to download the driver for your monitor, please access one of the internet sites noted above.
- Monitor Drivers are not required in most cases for Macintosh or Unix operating systems. For further information, please contact your computer dealer first for advice.

BASIC OPERATION

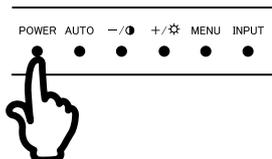
■ Turn on the monitor

Press the Main Power Switch on the monitor. The monitor is turned ON when you press the Power Switch on the monitor or the Remote Control.

Press again to turn OFF the monitor.

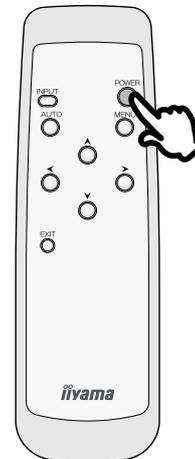
[Monitor]

Press the Power Switch.



[Remote Control]

Press the Power Switch.



NOTE

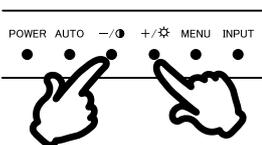
Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not in use, during the night and weekends, to avoid unnecessary power consumption.

■ Move the cursor horizontally

Select menu or setting, or perform the adjustment by pressing the + / - on the monitor or the < / > Button on the Remote Control when the menu page is displayed on the screen.

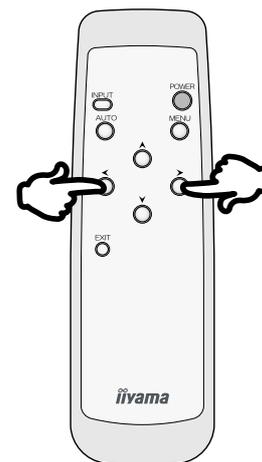
[Monitor]

Press the + / - Button.



[Remote Control]

Press the < / > Button.



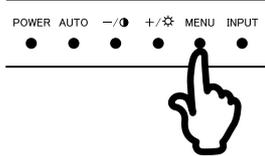
■ Display the adjustment menu page

The menu page appears on the screen when you press the Menu Button on the monitor or the Remote Control.

The menu page disappears when you press the Exit Button on the Remote Control.

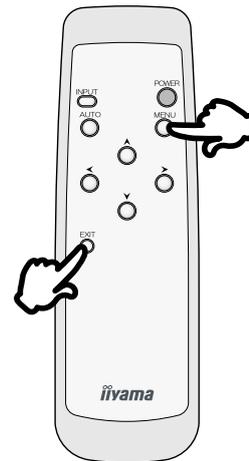
[Monitor]

Press the Menu Button.



[Remote Control]

Press the Menu Button.

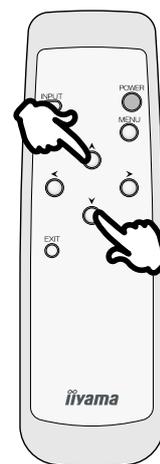


■ Display the adjustment zoom page

Press the Zoom Button (^ / v) on the Remote Control to adjust the zoom when the menu page is not displayed on the screen.

[Remote Control]

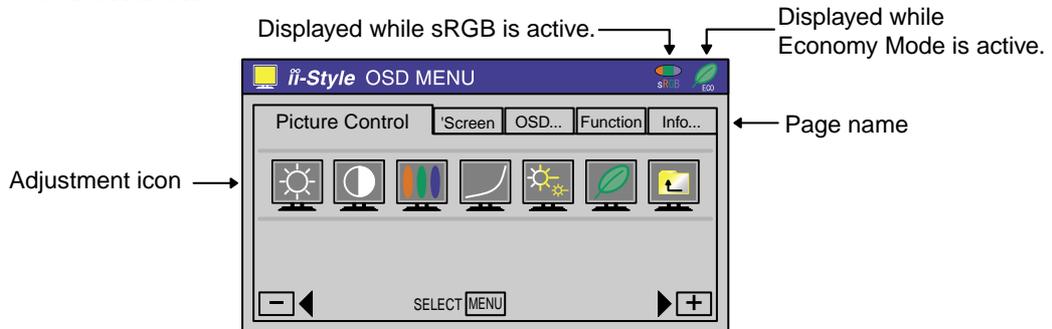
Press the Zoom Button (^ / v).



OPERATING THE MONITOR

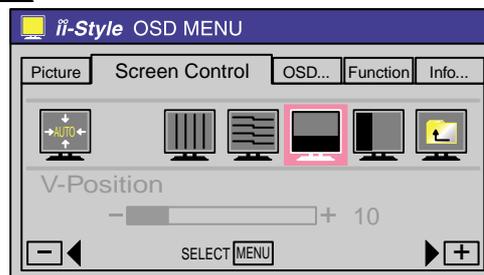
To create the best picture, your iiyama LCD monitor has been preset at the factory with the COMPLIANT TIMING shown on page 25. You are also able to adjust the picture by following the button operation shown below. For more detailed adjustments, see page 19 for SCREEN ADJUSTMENTS.

- 1 Press the Menu Button on the monitor or the Remote Control to start the On Screen Display feature. There are additional Menu pages which can be switched by using the + / - Buttons on the monitor or the < / > Buttons on the Remote Control.

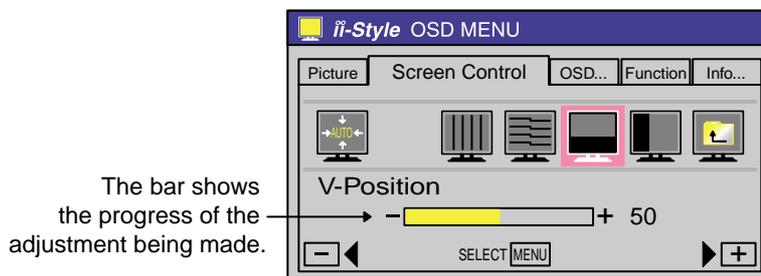


- 2 Select the Menu page which contains the adjustment icon relating to the adjustment you want to make. Press the Menu Button again. Then, use the + / - Buttons or the < / > Buttons to highlight the desired adjustment icon.
- 3 Press the Menu Button again. Use the + / - Buttons or the < / > Buttons to make the appropriate adjustment or setting.

For example, to correct for vertical position, select Menu page Screen Control and then press the Menu Button. Then, select  (V-Position) by using the + / - Buttons or the < / > Buttons.



An adjustment scale appears after you press the Menu Button. Use the + / - Buttons or the < / > Buttons to change the vertical position settings. The vertical position of the overall display should be changing accordingly while you are doing this.



NOTE

- The On Screen Display disappears several seconds after you stop pressing the buttons while performing an adjustment.
- Any changes are automatically saved in the memory when the On Screen Display disappears. Turning off the power should be avoided while using the Menu.
- Adjustments for Back Ground, Contrast, Clock, Phase and Position are saved for each signal timing. Except for these adjustments, all other adjustments have only one setting which applies to all signal timings.

ADJUSTMENT MENU CONTENTS

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- **Back Ground:** Press the Back Ground Button on the monitor or the Remote Control when the Menu is not displayed.
- **Contrast:** Press the Contrast Button on the monitor or the Remote Control when the Menu is not displayed.
- **Signal Select:** Press the Input Button on the monitor or the Remote Control.
- **Auto Set-up:** Press the Auto Button on the monitor or the Remote Control.
- **Zoom:** Press the Zoom Button on the Remote Control when the Menu is not displayed.
- **Volume:** Press the Menu Button on the monitor or the Remote Control within 5 seconds after pressing the Back Ground Button or the Contrast Button during the direct adjustments above.

NOTE SWITCHING BACK GROUND / CONTRAST / VOLUME ADJUSTMENT

To switch between Back Ground, Contrast and Volume adjustments, press the Menu Button within 5 seconds after pressing the Back Ground Button or the Contrast Button during the direct adjustments above.

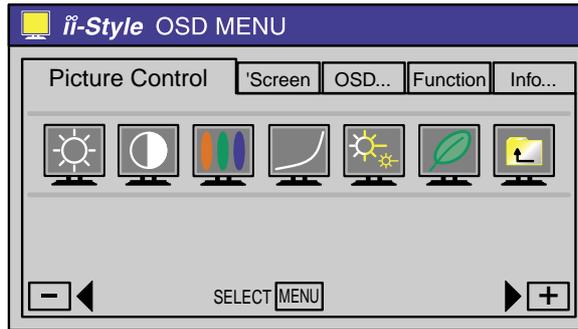
→ Back Ground → Contrast → Volume →

SIGNAL SELECT (D-SUB / DVI)

Select either D-SUB or DVI for the signal input when both of the signal inputs are connected to a signal source. Switch D-SUB and DVI whenever pressing the Input Button.

Analog / Digital Input

Menu : Picture Control (Analog / Digital)



Adjustment Item	Problem / Option		Button to Press
 Back Ground * Direct	Black is too dark Black is too bright		  or    or 
 Contrast Direct	Too dull Too intense		  or    or 
 Color Temp.	9300K	Bluish white (Approx. 9300K)	
	6500K	Reddish white (Approx. 6500K)	
	User	   Red Green Blue	Too weak   or  Too strong   or 
	sRGB	sRGB mode	
 Gamma	Normal	Normal	
	Hi Cont.	High contrast	
	Dark	Dark	
 Sharpness	1 2 3 4 5		  or    or 
You can change the picture quality from 1 to 5 (soft to sharp). Press the + Button to change the picture quality in numerical order. Press the – Button to change the picture quality in reverse numerical order.			
 Economy Mode	User	Back-light is too dark Back-light is too bright	  or    or 
	Mode 1	Brightness of back-light is reduced by Approx.10%.	
	Mode 2	Brightness of back-light is reduced by Approx.40%.	
 Return to Menu	Highlight “Menu : Picture Control” again.		

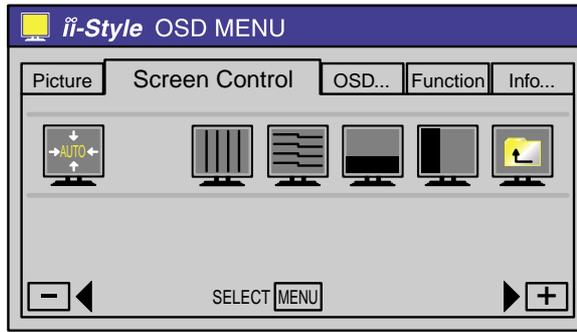
NOTE

- sRGB is an international standard which defines and unifies the difference of color appearance between equipment.
- You can not adjust the Back Ground, Contrast, Gamma and Economy Mode in sRGB mode because those settings are locked.
- Economy Mode is turned off when Economy Mode is active.

* Adjust the Back Ground when you are using the monitor in a dark room and feel the screen is too bright.

Direct See page 13 for Direct.

**Menu : Screen Control
(Analog)**



Adjustment Item	Problem / Option		Button to Press
 Auto Set-up *1 Direct	NO	Return to Menu.	
	YES	Adjust Clock, Phase, V-Position and H-Position automatically.	
NOTE The screen becomes dark for approximately five seconds during the adjustment.			
 Clock *2	To correct flickering text or lines		  or   or 
 Phase *2	To correct flickering text or lines		  or   or 
 V-Position	 Too low  Too high		  or    or 
 H-Position	 Too far to the left  Too far to the right		  or    or 
 Return to Menu	Highlight "Menu : Screen Control" again.		

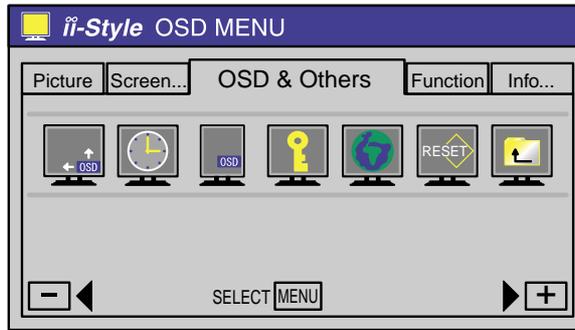
*1 For best results, use the Auto Set-up in conjunction with the adjustment pattern.
(See page 19 for SCREEN ADJUSTMENTS.)

*2 See page 19 for SCREEN ADJUSTMENTS.

*3 This menu is Analog Input only.

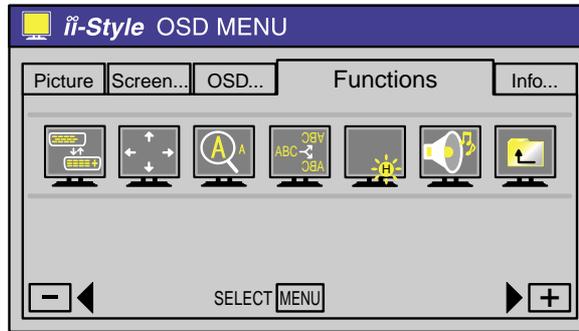
Direct See page 13 for Direct.

**Menu : OSD&Others
(Analog / Digital)**



Adjustment Item	Problem / Option	Button to Press																								
 OSD Position	1 2 3 4 5 You can move the OSD display area to any one of the following 5 positions within the overall display: <table border="1" data-bbox="1157 689 1300 788"> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>2</td> <td>3 5</td> </tr> </table> Press the + Button to move the OSD in numerical order. Press the – Button to move the OSD in reverse numerical order.	1	4	2	3 5	  or   or 																				
1	4																									
2	3 5																									
 OSD Off Timer	You can set the OSD display time 3 to 60 seconds.	  or   or 																								
 OSD Rotation	<table border="1"> <tr> <td>OFF</td> <td>Return to Normal.</td> </tr> <tr> <td>ON</td> <td>The menu screen is rotated 90 degrees left.</td> </tr> </table>	OFF	Return to Normal.	ON	The menu screen is rotated 90 degrees left.																					
OFF	Return to Normal.																									
ON	The menu screen is rotated 90 degrees left.																									
NOTE Uses this function when using the monitor with portrait orientation.																										
 Key Lock Mode	<table border="1"> <tr> <td>OFF</td> <td>Return to Menu.</td> </tr> <tr> <td>ON</td> <td>All adjustment items are locked out.</td> </tr> </table>	OFF	Return to Menu.	ON	All adjustment items are locked out.																					
OFF	Return to Menu.																									
ON	All adjustment items are locked out.																									
NOTE It can not be released when the Key Lock Mode is on. In the case that release is necessary, please contact your dealer.																										
 Language	<table border="1"> <tr> <td>English</td> <td>English</td> <td>Italiano</td> <td>Italian</td> </tr> <tr> <td>Deutsch</td> <td>German</td> <td>Español</td> <td>Spanish</td> </tr> <tr> <td>Français</td> <td>French</td> <td>Русский</td> <td>Russian</td> </tr> <tr> <td>Nederlands</td> <td>Dutch</td> <td>中文</td> <td>Chinese</td> </tr> <tr> <td>Svenska</td> <td>Swedish</td> <td>日本語</td> <td>Japanese</td> </tr> <tr> <td>Polski</td> <td>Polish</td> <td></td> <td></td> </tr> </table>	English	English	Italiano	Italian	Deutsch	German	Español	Spanish	Français	French	Русский	Russian	Nederlands	Dutch	中文	Chinese	Svenska	Swedish	日本語	Japanese	Polski	Polish			
English	English	Italiano	Italian																							
Deutsch	German	Español	Spanish																							
Français	French	Русский	Russian																							
Nederlands	Dutch	中文	Chinese																							
Svenska	Swedish	日本語	Japanese																							
Polski	Polish																									
 Reset	<table border="1"> <tr> <td>NO</td> <td>Return to Menu.</td> </tr> <tr> <td>YES</td> <td>Factory-preset data is restored.</td> </tr> </table>	NO	Return to Menu.	YES	Factory-preset data is restored.																					
NO	Return to Menu.																									
YES	Factory-preset data is restored.																									
 Return to Menu	Highlight “Menu : OSD&Others” again.																									

**Menu : Functions
(Analog / Digital)**



Adjustment Item	Problem / Option		Button to Press
 Signal Select Direct	D-SUB	Select the D-SUB input.	
	DVI	Select the DVI input.	
	S Video * ¹	Select the S Video input.	
	Video * ¹	Select the Video input.	
 Full Screen*²	1 to 1	The same magnification	
	Aspect	Expansion display of Aspect	
	Full	Expansion display	
 Zoom Direct	Zoom In	The screen is expanded.	← ⊕ or →
	Zoom Out	The screen is returned.	← ⊖ or →
	 MENU H-Position	To move the zoom point to the right.	← ⊕ or →
	 MENU V-Position	To move the zoom point to the left.	← ⊖ or →
		To move the zoom point downward.	← ⊕ or →
		To move the zoom point upward.	← ⊖ or →
 Flipping	OFF	Return to Normal.	
	H-Flipping	The screen that reversed the right and left is displayed.	
	V-Flipping	The screen that rotated 180 degrees is displayed.	
 LED ON/OFF	OFF	The LED turn OFF the light.	
	ON	The LED turn ON the light.	
 Volume Direct	Too soft		← ⊕ or →
	Too loud		← ⊖ or →
 Return to Menu	Highlight "Menu : Functions" again.		

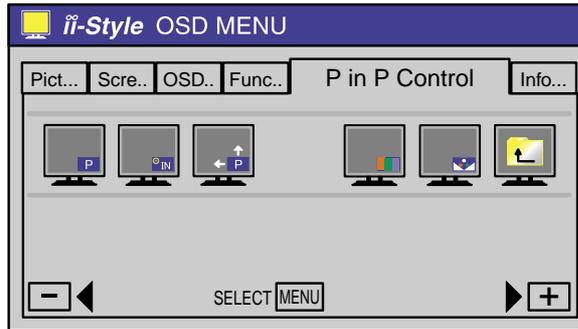
*¹ Optional input only, see APPENDIX B.

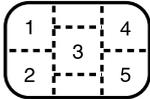
*² You can not select the ASPECT when UXGA 1600 × 1200 and WUXGA 1920 × 1200 are input .

Direct See page 13 for Direct.

The Menu: P in P Control is available only on Analog Input and Digital Input when the Optional Video Adapter (OVA3-1) is installed in the monitor.

**Menu : P in P Control
(Analog / Digital)**

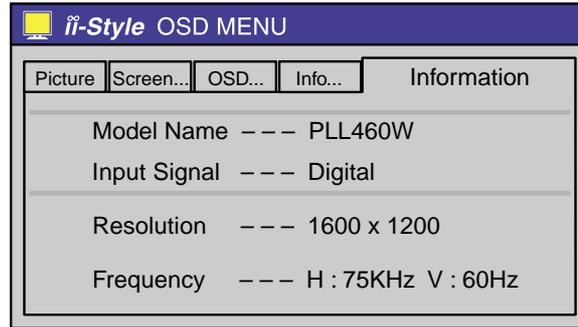


Adjustment Item	Problem / Option		Button to Press
 P in P ON	OFF	P in P function is turned off.	
	Small	Sub screen is displayed at minimum size.	
	Midle	Sub screen is displayed at normal size.	
	Large	Sub screen is displayed at maximum size.	
 P in P Input	S Video	Display a S Video picture in the sub screen.	
	Video	Display a Video picture in the sub screen.	
 P in P Position	1 2 3 4 5 You can move the sub screen display area to any one of the following 5 positions within the overall display: 		  or    or 
 P in P Color	Too weak of the sub screen		  or 
	Too strong of the sub screen		  or 
 P in P Hue	Purplish of the sub screen		  or 
	Greenish of the sub screen		  or 
 Return to Menu	Highlight "Menu : P in P Control" again.		

P in P = Picture in Picture:

With this function, you can display two different pictures, such as a picture from the computer in the main screen and a DVD / Video picture in the sub screen at the same time.

Menu : Information (Analog / Digital)



Displayed that are Model Name, Input Signal, Resolution and Frequency.

SCREEN ADJUSTMENTS

Adjust the image by following the procedure below to get the desired picture when selecting Analog input.

- The screen adjustments described in this manual are designed to set image position and minimize flicker or blur for the particular computer in use.
- The monitor is designed to provide the best performance at resolution of 1920 × 1080, but can not provide the best at resolutions of less than 1920 × 1080 because the picture is automatically stretched to fit the full screen. It is recommended to operate at a resolution of 1920 × 1080 in normal use.
- Displayed text or lines will be blurred or irregular in thickness when the picture is stretched due to the screen enlargement process.
- It is preferable to adjust the image position and frequency with the monitor controls, rather than with computer software or utilities.
- Perform adjustments after a warm-up period of at least thirty minutes.
- Additional adjustments may be required after the Auto Set-up depending on the resolution or signal timing.
- The Auto Set-up may not work correctly when displaying the picture other than the screen adjustment pattern. In this case, manual adjustments are required.

There are two ways to adjust the screen. One way is automatic adjustment for Clock, Phase and Position. The other way is performing each adjustment manually.

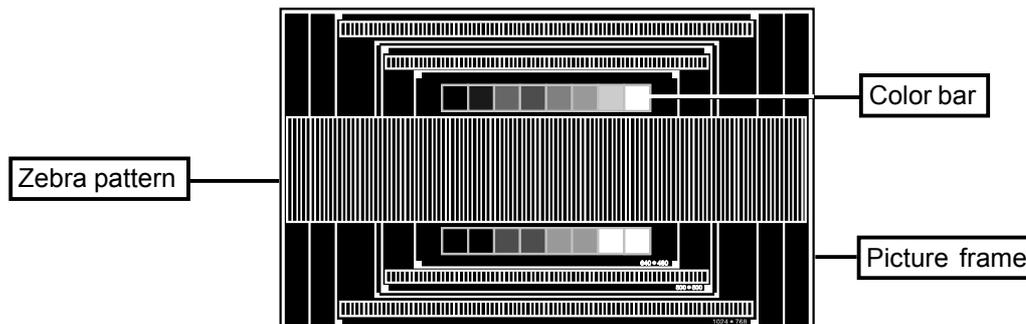
Perform the Auto Set-up first when the monitor is connected to a new computer, or resolution is changed. If the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Set-up, manual adjustments are required.

- ① **Set the Full Screen feature to Off and display the picture at the optimum resolution.**
- ② **Enter the Test.bmp (screen adjustment pattern) to wallpaper.**

NOTE

- Consult the appropriate documentation for doing this.
- Test.bmp is made at resolution of 1280 × 1024. Set the display position to center in the wallpaper setting dialogue box. If you use Microsoft® PLUS! 95/98 cancel the setting of “Stretch desktop wallpaper to fit the screen”.

[Adjustment pattern]

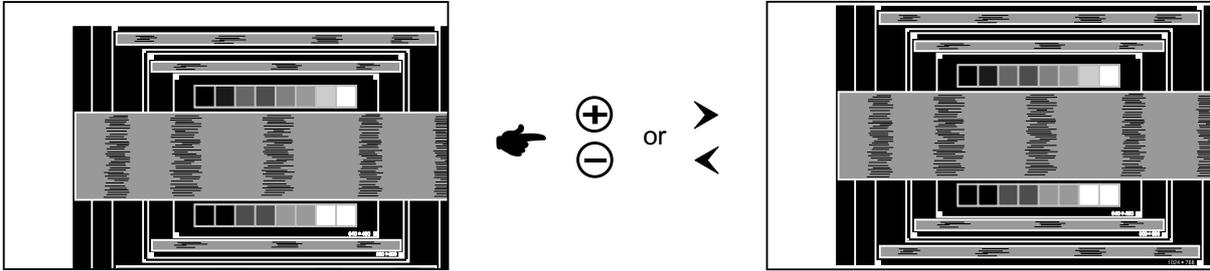


This is the image displayed at 1280 × 768.

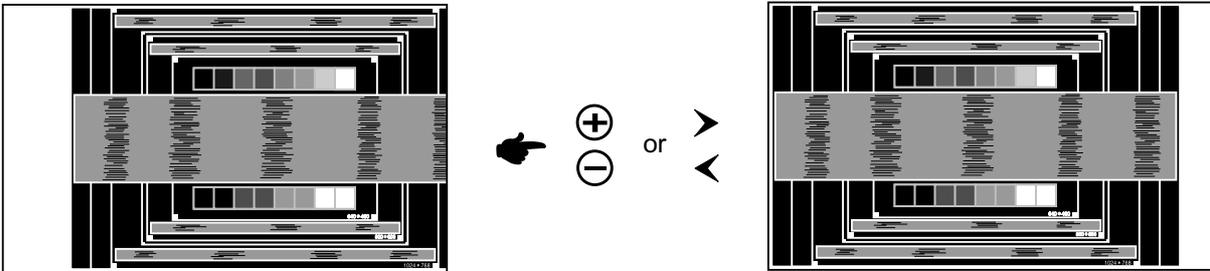
③ Press the Auto Button. (Auto Set-up)

④ Adjust the image manually by following procedure below when the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Set-up.

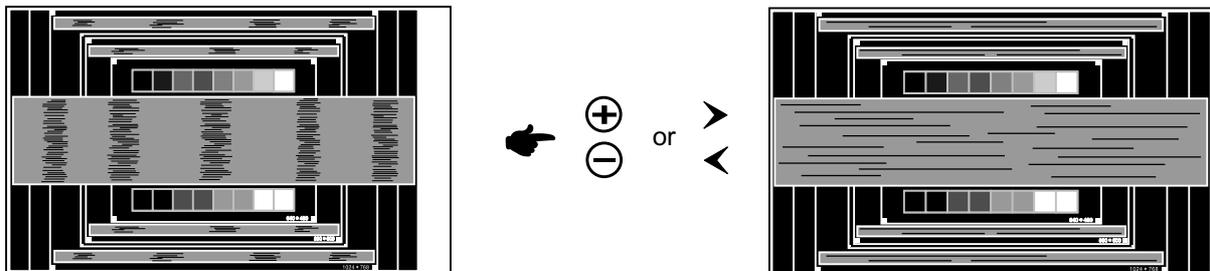
⑤ Adjust the V-Position so that the top and bottom of the picture frame will fit to the display area.



⑥ 1) Adjust the H-Position so that the left side of the picture frame will move to the left edge of the display area.



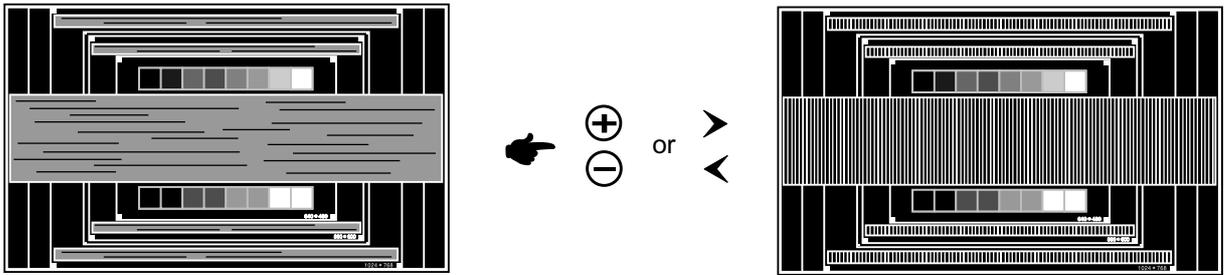
2) Stretch the right side of the picture frame to the right edge of the display area by adjusting the Clock.



NOTE

- When the left side of the picture frame moves apart from the left edge of the display area during the Clock adjustment, adjust steps 1) and 2).
- Another way to make the Clock adjustment is to correct the vertical wavy lines in the zebra pattern.
- The picture may flicker during the Clock, H-Position and V-Position adjustment.
- In case the picture frame is bigger or smaller than the data display area after the Clock adjustment, repeat steps from ③.

⑦ Adjust the Phase to correct horizontal wavy noise, flicker or blur in the zebra pattern.



NOTE

- In case the strong flicker or blurs remain on a part of the screen, repeat steps ⑥ and ⑦ because the Clock may not be adjusted correctly. If the flicker or blurs still remain, set the refresh rate of computer to low (60Hz) and repeat steps from ③ again.
- Adjust the H-Position after the Phase adjustment if the horizontal position moves during the adjustment.

⑧ Adjust the Back Ground and Color Temp. to get the desired picture after you complete the Clock and Phase adjustments.
Put back your favorite wallpaper.

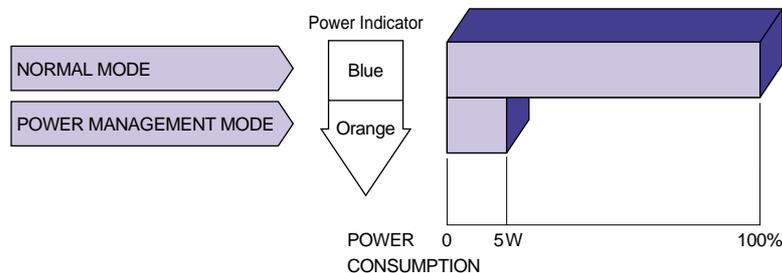
POWER MANAGEMENT FEATURE

The power management feature of this product complies with every power saving requirement of ENERGY STAR® and VESA DPMS. When activated, it automatically reduces unnecessary power consumption of the monitor when your computer is not in use.

To use the feature, the monitor needs to be connected to a VESA DPMS compliant computer. There is a power management step the monitor takes as described below. The power management function, including any timer settings is configured by the operating system. Check your operating system manual for information on how this can be configured.

■ Power Management Mode

When the H-sync signal / V-sync signal / H and V sync signals from the computer are off, the monitor enters into Power Management Mode which reduces the power consumption to less than 5W. The screen becomes dark, and the power indicator turns to orange. From Power Management Mode, the image reappears in several seconds when either the keyboard or the mouse are touched again.



NOTE

- Even when using the power management mode, the monitor consumes electricity. Turn off the Power Switch whenever the monitor is not in use, during the night and weekends, to avoid unnecessary power consumption.
- It is possible that the video signal from the computer may be on while the H or V sync signal is missing. In this instance, the POWER MANAGEMENT feature may not work properly.

TROUBLE SHOOTING

If the monitor fails to operate correctly, please follow the steps below for a possible solution.

1. Perform the adjustments described in OPERATING THE MONITOR, depending on the problem you have. If the monitor does not get a picture, skip to 2.
2. Consult the following items if you cannot find an appropriate adjustment item in OPERATING THE MONITOR or if the problem persists.
3. If you are experiencing a problem which is not described below or you cannot correct the problem, discontinue using the monitor and contact your dealer or iiyama service center for further assistance.

Problem	Check
① The picture does not appear.	
(Power indicator does not light up.)	<input type="checkbox"/> The Power Cable is firmly seated in the socket. <input type="checkbox"/> The Power Switch is turned ON. <input type="checkbox"/> The AC socket is live. Please check with another piece of equipment.
(Power indicator is blue.)	<input type="checkbox"/> If the blank screen saver is in active mode, touch the keyboard or the mouse. <input type="checkbox"/> Increase the Contrast and/or Back Ground <input type="checkbox"/> The computer is ON. <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	<input type="checkbox"/> If the monitor is in power management mode, touch the keyboard or the mouse. <input type="checkbox"/> If the input video signal selection is different, switch the Signal Select. <input type="checkbox"/> The computer is ON. <input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	<input type="checkbox"/> The Signal Cable is properly connected. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor. <input type="checkbox"/> The video output level of the computer is within the specification of the monitor.
③ The screen position is not in the center.	<input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
④ The screen is too bright or too dark.	<input type="checkbox"/> The video output level of the computer is within the specification of the monitor.
⑤ The screen is shaking.	<input type="checkbox"/> The power voltage is within the specification of the monitor. <input type="checkbox"/> The signal timing of the computer is within the specification of the monitor.
⑥ Remote Control does not work.	<input type="checkbox"/> Replace with new batteries. <input type="checkbox"/> The battery terminals match the “+” and “-” indications in the battery compartment. <input type="checkbox"/> The Remote Sensor is bathed in an intense light such as a fluorescent light. <input type="checkbox"/> There is an obstacle between the Remote Control and the Remote Sensor.

APPENDIX A

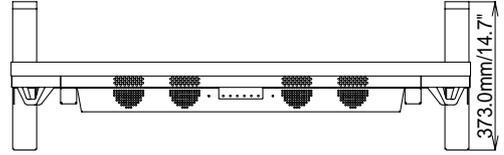
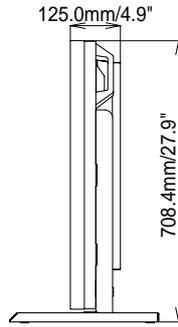
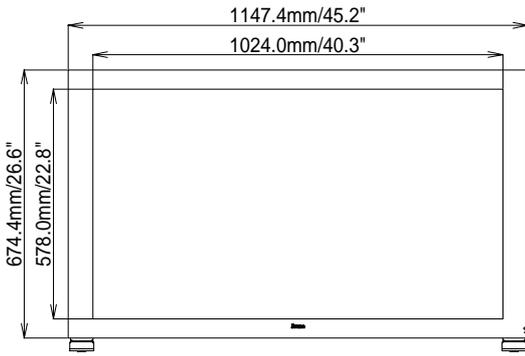
SPECIFICATIONS

		PLL460W-B0U	PLL460W-B0UDL
LCD Panel	Driving system	a-Si TFT Active Matrix	
	Size	Diagonal: 116.97cm / 46"	
	Pixel pitch	0.531mm H × 0.531mm V	
	Brightness	600cd/m ² (Typical)	
	Contrast ratio	600 : 1 (Typical)	
	Viewable angle	Right / Left / Up / Down: 85 degrees each	
	Response time	20ms (Black, white, black)	
Display Colors		16,777,216 maximum	
Sync Frequency		Horizontal: 30-80kHz, Vertical: 56-76Hz	
Dot Clock		193MHz maximum(Analog), 165MHz maximum(Digital)	
Maximum Resolution		1920 × 1200, 2 Mega Pixels	
Recommended Resolution		1920 × 1080, 2 Mega Pixels	
Input Video Connector		D-SUB mini 15pin (ANALOG) DVI-D 24pin (DIGITAL)	
Control Input Connector		RS-232C	
Plug & Play		VESA DDC2B™, DDC-CI	
Input Sync Signal		Separate sync: TTL, Positive or Negative Composite sync: TTL, Positive or Negative Sync on green: 0.3Vp-p, Negative	
Input Video Signal		Analog: 0.7Vp-p (Standard), 75Ω, Positive Digital: DVI (Digital Visual Interface standard Rev.1.0) compliance	
Input Audio Connector		ø 3.5mm stereo mini jack	
Input Audio Signal		0.7Vrms maximum	
Speaker output		10W × 2 (4Ω, Stereo)	
Maximum Screen Size		1019.52mm W × 573.48mm H / 40.1" W × 22.6" H	
Power Source		100-230VAC, 50/60Hz, 3.9-1.7A	
Power Consumption		340W Power management mode: 5W maximum	
Dimensions Net Weight		1147.4 × 708.4 × 373.0mm / 45.2 × 27.9 × 14.7" (W×H×D) 44.8kg / 98.8lbs (With Stand)	1147.4 × 674.4 × 125.0mm / 45.2 × 26.6 × 4.9" (W×H×D) 41.3kg / 91.1lbs
Environmental Considerations		Operative temperature: 0 to 40°C / 32 to 104°F Storage temperature: -20 to 60°C / -4 to 140°F Humidity: 85% maximum (No condensation)	
Approvals		CE, FCC-B, MET (US and Canada), VCCI-B	CE, FCC-B, MET (US and Canada)

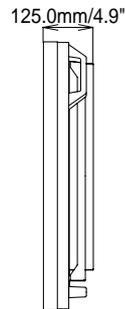
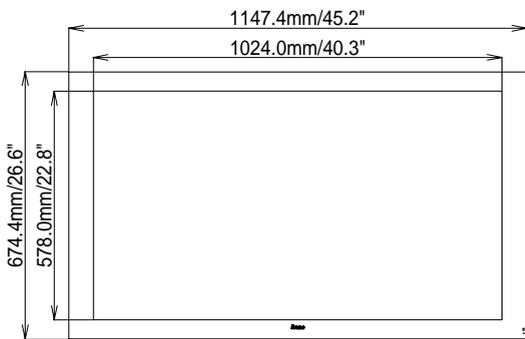
DIMENSIONS

ENGLISH

■ PLL460W-B0U



■ PLL460W-B0UDL



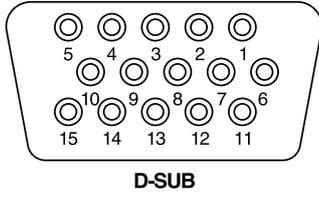
COMPLIANT TIMING

Video Mode		Horizontal Frequency	Vertical Frequency	Dot Clock	
VESA	VGA 640 × 480	31.469kHz	59.940Hz	25.175MHz	
		37.861kHz	72.809Hz	31.500MHz	
		37.500kHz	75.000Hz	31.500MHz	
	SVGA 800 × 600	37.879kHz	60.317Hz	40.000MHz	
		48.077kHz	72.188Hz	50.000MHz	
		46.875kHz	75.000Hz	49.500MHz	
	XGA 1024 × 768	48.363kHz	60.004Hz	65.000MHz	
		56.476kHz	70.069Hz	75.000MHz	
		60.023kHz	75.029Hz	78.750MHz	
	WXGA 1280 × 768	44.410kHz	56.000Hz	73.895MHz	
		47.776kHz	59.870Hz	79.500MHz	
		60.289kHz	74.893Hz	102.250MHz	
	SXGA 1280 × 1024	63.981kHz	60.020Hz	108.000MHz	
		79.976kHz	75.025Hz	135.000MHz	
	UXGA 1600 × 1200	75.000kHz	60.000Hz	162.000MHz	
WUXGA 1920 × 1200	Digital	74.038kHz	59.950Hz	154.000MHz	
	Analog	74.556kHz	59.885Hz	193.250MHz	
720p	1280 × 720	44.772kHz	59.855Hz	74.500MHz	
WUXGA (CTV)	1920 × 1080	Digital	66.587kHz	59.934Hz	139.500MHz
		Analog	67.158kHz	59.963Hz	173.000MHz
VGA TEXT	720 × 400	31.469kHz	70.087Hz	28.332MHz	*
Macintosh	640 × 480	35.000kHz	66.667Hz	30.240MHz	*
	832 × 624	49.725kHz	74.500Hz	57.283MHz	*
	1024 × 768	60.150kHz	74.720Hz	80.000MHz	*

NOTE * DVI input is not compliant.

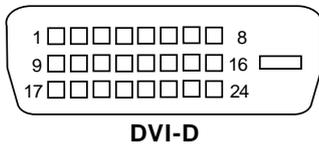
CONNECTOR PIN ASSIGNMENT

■ D-SUB mini 15pin Connector



Pin	Input Signal	Pin	Input Signal
1	Red video	9	5V in
2	Green video	10	Ground
3	Blue video	11	Ground
4		12	Data line (SDA)*
5		13	H-Sync
6	Red video ground	14	V-Sync
7	Green video ground	15	Clock line (SCL)*
8	Blue video ground		* Compliant to VESA DDC.

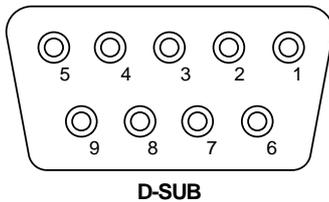
■ DVI-D 24pin Connector



Pin	Input Signal	Pin	Input Signal
1	T.M.D.S Data 2-	13	
2	T.M.D.S Data 2+	14	+5V Power
3	T.M.D.S Data 2 Ground	15	Ground
4		16	Hot Plug Detect
5		17	T.M.D.S Data 0-
6	Clock line (SCL) *	18	T.M.D.S Data 0+
7	Data line (SDA) *	19	T.M.D.S Data 0 Ground
8	Analog V-Sync	20	
9	T.M.D.S Data 1-	21	
10	T.M.D.S Data 1+	22	T.M.D.S Clock Ground
11	T.M.D.S Data 1 Ground	23	T.M.D.S Clock +
12		24	T.M.D.S Clock -

* Compliant to VESA DDC.

■ RS-232C (D-SUB 9pin) Connector



Pin	Input Signal	Pin	Input Signal
1	NC	6	NC
2	TxD (Transmit Data)	7	NC
3	RxD (Receive Data)	8	RTS (Request To Sent)
4	NC	9	NC
5	Ground		

APPENDIX B

Optional Video Adapter (OVA3-1) install

This OSD Menu is available only when the OVA3-1 is installed in the monitor.

Video input is not selected automatically from Analog or Digital input. Switch to video input by “Signal Select” on OSD Menu or the Input Button. Under the power management mode, “Signal Select” page is displayed directly by pressing the Menu Button when the Menu is not displayed.

Direct

You can skip the Menu pages and display an adjustment scale directly by using the following button operations.

- Back Ground: Press the Back Ground Button on the monitor or the Remote Control when the Menu is not displayed.
- Contrast: Press the Contrast Button on the monitor or the Remote Control when the Menu is not displayed.
- Signal Select: Press the Input Button on the monitor or the Remote Control.
- Zoom: Press the Zoom Button on the Remote Control when the menu is not displayed.
- Volume: Press the Menu Button on the monitor or the Remote Control within 5 seconds after pressing the Back Ground Button or the Contrast Button during the direct adjustments above.
- Picture Lock: Press the Auto Button on the monitor or the Remote Control when the Menu is not displayed.

NOTE SWITCHING BACK GROUND / CONTRAST / VOLUME ADJUSTMENT

To switch between Back Ground, Contrast and Volume adjustments, press the Menu Button within 5 seconds after pressing the Back Ground Button or the Contrast Button during the direct adjustments above.

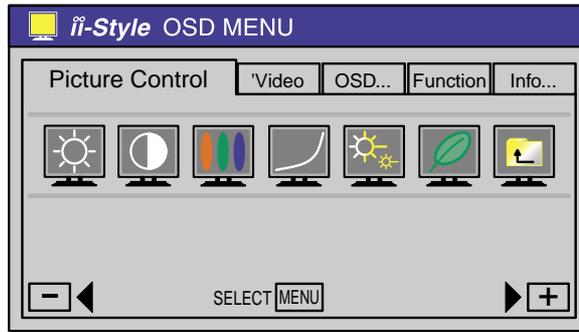
⇒ Back Ground → Contrast → Volume □

PICTURE LOCK

“Now, Frame was Locked.” is displayed and picture on the screen can be locked when pressing the Auto Button while the Menu is not displayed.

Press the Auto Button again to release it.

**Menu : Picture Control
(Video)**



Adjustment Item	Problem / Option		Button to Press							
Back Ground * Direct	Black is too dark Black is too bright		⊕ or > ⊖ or <							
Contrast Direct	Too dull Too intense		⊕ or > ⊖ or <							
Color Temp.	9300K	Bluish white (Approx. 9300K)	⊕ or > ⊖ or <							
	6500K	Reddish white (Approx. 6500K)								
	User	<table border="1"> <tr> <td> MENU ⊙ </td> <td>Red</td> <td rowspan="3"> Too weak Too strong </td> </tr> <tr> <td></td> <td>Green</td> </tr> <tr> <td></td> <td>Blue</td> </tr> </table>		MENU ⊙	Red	Too weak Too strong		Green		Blue
	MENU ⊙	Red		Too weak Too strong						
	Green									
	Blue									
sRGB	sRGB mode									
Gamma	Normal	Normal								
	Hi Cont.	High contrast								
	Dark	Dark								
Sharpness	1 2 3 4 5		⊕ or > ⊖ or <							
Economy Mode	User	Back-light is too dark Back-light is too bright	⊕ or > ⊖ or <							
	Mode 1	Brightness of back-light is reduced by Approx.10%.								
	Mode 2	Brightness of back-light is reduced by Approx.40%.								
Return to Menu	Highlight "Menu : Picture Control" again.									

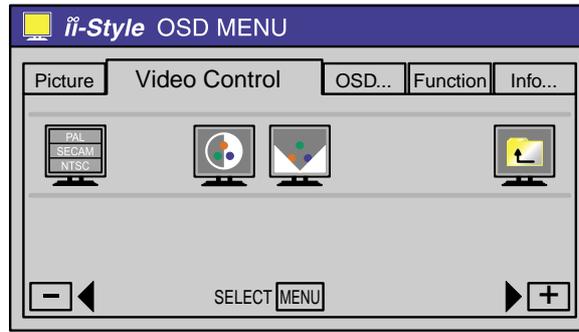
NOTE

- sRGB is an international standard which defines and unifies the difference of color appearance between equipment.
- You can not adjust the Back Ground, Contrast, Gamma and Economy Mode in sRGB mode because those settings are locked.
- Economy Mode is turned off when Economy Mode is active.

* Adjust the Back Ground when you are using the monitor in a dark room and feel the screen is too bright.

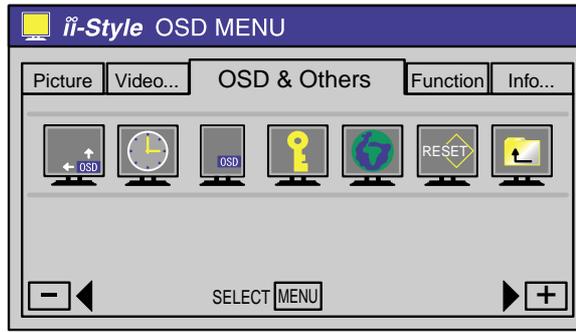
Direct See page 27 for Direct.

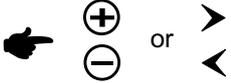
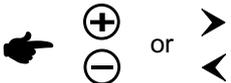
Menu : Video Control (Video)



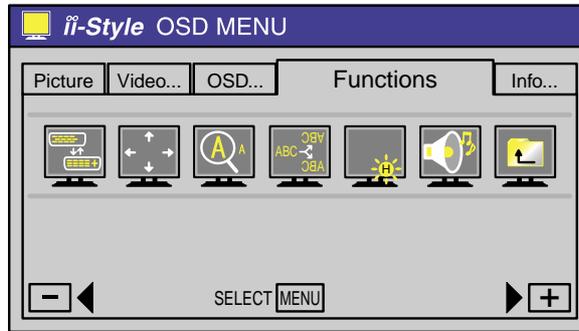
Adjustment Item	Problem / Option		Button to Press
 Input System	Auto	Switch the broadcast system automatically. Select this in normal use.	
	NTSC	Switch the broadcast system to NTSC by force.	
	PAL	Switch the broadcast system to PAL by force.	
	SECAM	Switch the broadcast system to SECAM by force.	
 Color	Too weak		  or 
	Too strong		  or 
 Hue	Purplish		  or 
	Greenish		  or 
 Return to Menu	Highlight "Menu : Video Control" again.		

**Menu : OSD&Others
(Video)**



Adjustment Item	Problem / Option	Button to Press				
 OSD Position	1 2 3 4 5 You can move the OSD display area to any one of the following 5 positions within the overall display: <table border="1" data-bbox="1117 689 1268 788"> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>2</td> <td>3 5</td> </tr> </table> Press the + Button to move the OSD in numerical order. Press the – Button to move the OSD in reverse numerical order.	1	4	2	3 5	
1	4					
2	3 5					
 OSD Off Timer	You can set the OSD display time 3 to 60 seconds.					
 OSD Rotation	OFF Return to Normal.					
	ON The menu screen is rotated 90 degrees left.					
NOTE Uses this function when using the monitor with portrait orientation.						
 Key Lock Mode	OFF Return to Menu.					
	ON All adjustment items are locked out.					
NOTE It can not be released when the Key Lock Mode is on. In the case that release is necessary, please contact your dealer.						
 Language	English English Italiano Italian					
	Deutsch German Español Spanish					
	Français French Русский Russian					
	Nederlands Dutch 中文 Chinese					
	Svenska Swedish 日本語 Japanese					
	Polski Polish					
 Reset	NO Return to Menu.					
	YES Factory-preset data is restored.					
 Return to Menu	Highlight “Menu : OSD&Others” again.					

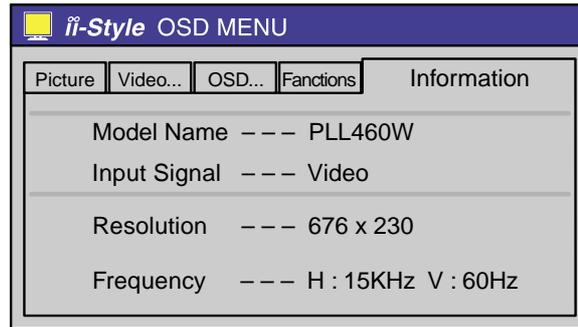
Menu : Functions (Video)



Adjustment Item	Problem / Option		Button to Press	
 Signal Select Direct	D-SUB	Select the D-SUB input.		
	DVI	Select the DVI input.		
	S Video	Select the S Video input.		
	Video	Select the Video input.		
 Full Screen	1 to 1	The same magnification		
	Aspect	Expansion display of Aspect		
	Full	Expansion display		
 Zoom Direct	Zoom In	The screen is expanded.	➡ ⊕ or ➡	
	Zoom Out	The screen is returned.	➡ ⊖ or ⬅	
	 MENU			
	H-Position	To move the zoom point to the right.	➡ ⊕ or ➡	
		To move the zoom point to the left.	➡ ⊖ or ⬅	
	 MENU			
 Flipping	OFF	Return to Normal.		
	H-Flipping	The screen that reversed the right and left is displayed.		
	V-Flipping	The screen that rotated 180 degrees is displayed.		
 LED ON/OFF	OFF	The LED turn OFF the light.		
	ON	The LED turn ON the light.		
 Volume Direct	Too soft		➡ ⊕ or ➡	
	Too loud		➡ ⊖ or ⬅	
 Return to Menu	Highlight "Menu : Functions" again.			

Direct See page 27 for Direct.

Menu : Information (Video)



Displayed that are Model Name, Input Signal, Resolution and Frequency.

Specifications for OVA3-1

Input Connector	RCA pin jack S-Video terminal
Input Video Signal	Video*: NTSC, PAL, SECAM

NOTE * Not all broadcast systems are supported.

Optional Video Adapter (OVA3-2) install

The analog output is available when the OVA3-2 is installed in the monitor.

Specifications for OVA3-2

Output Connector	D-SUB mini 15pin
Output Video Signal	Analog: 0.7Vp-p (Standard), 75Ω, Positive