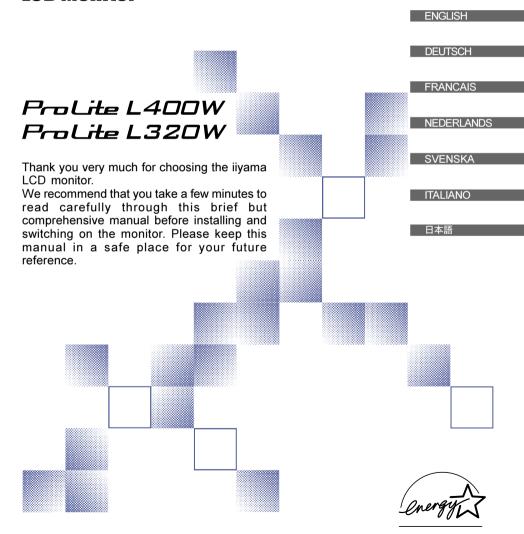


Pro Lite

LCD Monitor



FCC DECLARATION OF CONFORMITY

Model Number: PLL400W / PLL320W

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.

INSTALL ATION 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 fatique, 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 vou 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 jivama 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 ijyama 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

Acid or Alkaline solvent Abrasive cleaner

■ 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

ProLite L320W-B: NOTE The top of the monitor may become hot during use.

FEATURES

- ◆ ProLite L400W-B1X: 39.6" Wide Screen TFT Color LCD Monitor Prol ite I 320W-B: 32" Wide Screen TET Color I CD Monitor
- ◆ Supports Resolutions up to 1280 × 1024 (down scale)
- Super Wide Viewing Angle and High Contrast
- Digital Character Smoothing
- Automatic Set-up
- ◆ Plug & Play VESA DDC2B Compliant, Windows® 95/98/2000/Me/XP Compliant
- ◆ Power Management (ENERGY STAR® and VESA DPMS Compliant)
- Digital Input for Clear Display

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 jiyama dealer or regional jiyama office.

- Power Cable*
- DVI-D Signal Cable DV66
- Stand x 2
- Remote Control
- User Manual

- D-SUB Signal Cable MB37
- RS-232C Cable SR51
- Screw for Stand × 4
- AA Dry Battery × 2

CAUTION

* 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.

OPTIONAL PARTS

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

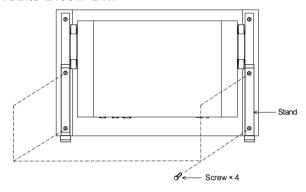
■ Video Adapter OVA1-2

- **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.

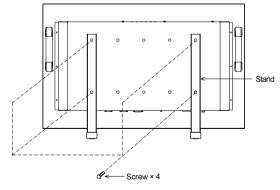
Install the Stand as shown in the illustration.

Tighten the Screw to fasten the Stand.

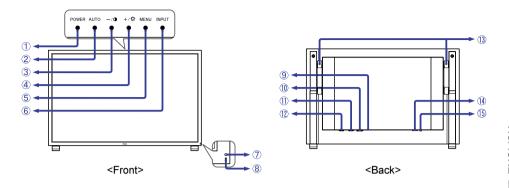
ProLite L400W-B1X



ProLite L320W-B



CONTROLS AND CONNECTORS



- 1) Power Switch (POWER)
- 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 21 for SCREEN ADJUSTMENTS.)
- The screen becomes dark for approximately five seconds during the adjustment.
- ③ -/ Contrast Button (-/ (1))
- 4 + / Brightness Button (+ / O-)
- (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.

- Optional Video Adapter Slot
- DVI-D 24pin Connector (DVI)
- (1) D-SUB mini 15pin Connector (D-SUB)
- (12) RS-232C Connector (RS-232C)
- (13) Handles
- (14) AC Connector (AC IN)
- (15) Main Power Switch (POWER)

<Remote Control> iivama

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

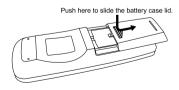
NOTE

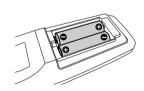
- ■For best results, use the Auto Set-up in conjunction with the test pattern Test.bmp. (See page 21 for SCREEN ADJUSTMENTS.)
- ■The screen becomes dark for approximately five seconds during the adjustment.
- 3 Zoom + Button (A)
- (4) Button / Contrast Button (<)</p>
- ⑤ Exit Button (EXIT)
- ⑥ Power Switch (POWER)
- (7) Menu Button (MENU)
- (8) + Button / Brightness 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.
- 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.

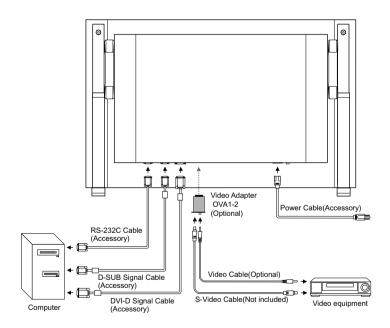
CONNECTING YOUR MONITOR

- (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 27 for CONNECTOR PIN ASSIGNMENT.)
- ③ Connect the RS-232C cable to the computer while using the RS-232C control feature. (See page 27 for CONNECTOR PINASSIGNMENT.)
- (4) 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 26 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.

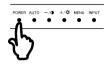
BASIC OPERATION

■ Turn on the monitor

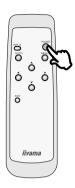
Press the Main Power Switch on the monitor. The monitor is turned ON when you press the Power Switch on the monitor or the Remote Control. Press again to turn OFF the monitor.

[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.

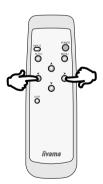
■ Move the cursor horizontally

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

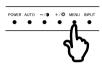


■ Display the adjustment menu page

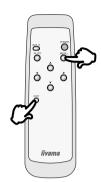
The menu page appears on the screen when you press the Menu Button on the monitor or the Remote Control.

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

The Zoom item appears on the screen when you press the Zoom ★ / ¥ Button on the Remote Control.

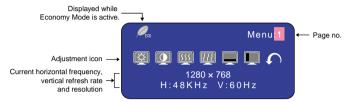
[Remote Control] Press the Zoom ▲ / ¥ Button.



OPERATING THE MONITOR

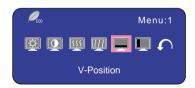
To create the best picture, your liyama LCD monitor has been preset at the factory with the COMPLIANT TIMING shown on page 26. You are also able to adjust the picture by following the button operation shown below. For more detailed adjustments, see page 21 for SCREEN ADJUSTMENTS.

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 </>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 + I – Buttons or the I > 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 number 1 and then press the Menu Button. Then, select (V-Position) by using the + / − Buttons or the



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 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.

Brightness: Press the Brightness 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.

NOTE

SWITCHING BRIGHTNESS / CONTRAST ADJUSTMENT

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

SIGNAL SELECT (IN1 / IN2)

Select either IN1 or IN2 for the signal input when both of the signal inputs are connected to a signal source. Switch IN1 and IN2 whenever pressing the Input Button.

Analog Input

Menu: 1 Menu:1 (Analog) 1280 × 768 H:48KHz V:60Hz Adjustment Item Problem / Option **Button to Press** Too dark Direct Brightness *1 Too bright Too dull Direct Contrast Too intense To correct flickering text Clock *2 or lines To correct flickering text Phase *2 or lines Too low V-Position Too high Too far to the left H-Position Too far to the right Return to Menu Highlight "Menu: 1" again.

Direct See page 13 for Direct.

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

^{*2} See page 21 for SCREEN ADJUSTMENTS.

Menu: 2 (Analog)



Adjustment Item	Problem / 0	Option Button to Press		
Color Temp.	9300K	Bluish white (Approx. 9300K)		
Solot Tollip.	6500K	Reddish white (Approx. 6500K)		
	User	Red Green Blue Too weak Too strong or V		
Gamma	Normal	Normal		
	Hi Cont.	High contrast		
	Dark	Dark		
Sharpness	1 2 3 4 5			
	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	OFF Normal			
200 months initiated	Mode 1 Brightness of back-light is reduced by Approx.10%.			
	Mode 2 Brightness of back-light is reduced by Approx.50%.			
Return to Menu	Highlight "Menu : 2" again.			

Menu: 3 (Analog)



Adjustment Item	Problem / 0	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:			
		Button to move the OSD in num n to move the OSD in reverse no		
OSD Off Timer	You can set the OSD display time 3 to 60 seconds.			
Key Lock Mode	OFF	Return to Menu.		
	ON All adjustment items are locked out.			
NOTE It can not be released w necessary, please contact	•	Lock Mode is on. In the cas	se that release is	
H-Flipping	OFF	Return to Normal.		
	ON The screen that reversed the right and left is displayed.			
V-Flipping	OFF	Return to Normal.		
	ON	The screen that rotated displayed.	180 degrees is	
Return to Menu	Highlight "Menu : 3" again.			

Menu : 4 (Analog)



Adjustment Item	Problem / Option	on		Button to Press
Signal Select	IN 1	Select the D-SUE	input.	
John Signal Select	IN 2	Select theDVI inp	ut.	
Direct	S Video *1	Select the S Video input.		
	Video *1	Select the Video input.		
Auto Set-up *2	NO	Return to Menu.		
Direct	YES	Adjust Clock, Pl automatically.	nase, V-Position	and H-Poshition
NOTE The screen become	mes dark for app	proximately five se	conds during the	adjustment.
Full Screen	1 to 1	The normal scree	en display of 4:3.	
Tun boreen	Aspect	Expansion displa	y of Aspect.	
	Full	Expansion displa	y.	
Zoom	Zoom In Zoom Out	The screen is expanded. The screen is returned.		
Only the Remote Control has direct adjustment.	H-Position MENU MENU	To move the zoom point to the right. To move the zoom point to the left. To move the zoom point to the left.		
	V-Position	To move the zoom point downward. To move the zoom point upward.		← ⊕ or ∧ ← ⊕ or ∨
Language	English	English	Italiano	Italian
	Deutsch	German	Español	Spanish
	Français	French	Русский	Russian
	Nederlands	Dutch	中文	Chinese
	Svenska	Swedish	日本語	Japanese
Reset	NO	Return to Menu. Factory-preset data is restored.		
	YES			
Return to Menu	u Highlight "Menu : 4" again.			

^{*1} Optional input only, see APPENDIX B.

^{*2} For best results, use the Auto Set-up in conjunction with the adjustment pattern. (See page 21 for SCREEN ADJUSTMENTS.)

Direct See page 13 for Direct.

Digital Input

Menu: 1 (Digital)



Adjustment Item	Problem /	Option Button to Press		
Brightness * Direct	Too dark 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 Too strong Too weak		
Gamma	Normal	Normal		
	Hi Cont.	High contrast		
	Dark	Dark		
Sharpness	1 2 3 4 5			
	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	OFF	Normal		
	Mode 1	Brightness of back-light is reduced by Approx.10%.		
	Mode 2 Brightness of back-light is reduced by Approx.			
Return to Menu	Highlight "Menu : 1" again.			

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

Direct See page 13 for Direct.

Menu: 2 (Digital)



Adjustment Item	Problem / Option Button to Pres			
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: Press the + Button to move the OSD in numerical order. Press			
	the – Butto	n to move the OSD in reverse no	umerical order.	
OSD Off Timer	You can set the OSD display time 3 to 60 e or conds.			
Key Lock Mode	OFF	Return to Menu.		
· ·	ON	All adjustment items are locked out.		
NOTE It can not be released w necessary, please contact	•	/ Lock Mode is on. In the cas	e that release is	
H-Flipping	OFF	Return to Normal.		
	ON The screen that reversed the right and left is displayed.			
V-Flipping V-Flipping	OFF	Return to Normal.		
A S	ON	The screen that rotated displayed.	180 degrees is	
Return to Menu	Highlight "Menu : 2" again.			

Menu: 3 (Digital)



Adjustment Item	Problem / Option		Button to Press	
Signal Select	IN 1	Select the D-SUE	3 input.	
	IN2	Select the DVI in	put.	
Direct	S Video *	Select the S Video input.		
	Video *	Select the Video	input.	
Full Screen	1 to 1	The normal scree	en display of 4:3.	
<u> </u>	Aspect	Expansion displa	y of Aspect.	
	Full	Expansion displa	y.	
Zoom	Zoom In	The screen is ex	panded.	← ⊕ ∧
<u> </u>	Zoom Out	The screen is re	turned.	or V
Only the Remote Control has direct adjustment.	H-Position WENU V-Position	To move the zoom point to the right. To move the zoom point to the left. To move the zoom point downward. To move the zoom point upward.		← ⊕ ∧
Language	English	English	Italiano	Italian
Language	Deutsch	German	Español	Spanish
	Français	French	Русский	Russian
	Nederlands	Dutch	中文	Chinese
	Svenska	Swedish	日本語	Japanese
Reset	NO	Return to Menu.		
The section of the se	YES	Factory-preset data is restored.		
Return to Menu	Highlight "Menu : 3" again.			

Optional input only, see APPENDIX B.

Direct See page 13 for Direct.

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 1280 × 768, but can not provide the best at resolutions of less than 1280 × 768 because the picture is automatically stretched to fit the full screen. It is recommended to operate at a resolution of 1280 × 768 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
- 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.

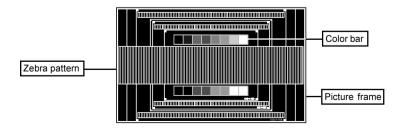
Perform the Auto Set-up first when the monitor is connected to a new computer, or resolution is changed. If the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Set-up, manual adjustments are required. Both adjustments should be made by using the screen adjustment pattern (Test.bmp) obtained via the iiyama web site (http:// www.iiyama.com or http://www.iiyama.co.uk).

This manual explains adjustment under Windows 95/98/2000/Me/XP.

- 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.

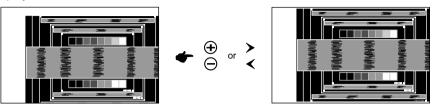
 - **NOTE** Consult the appropriate documentation for doing this.
 - Test.bmp is made at resolution of 1280 × 1024. Set the display position to center in the wallpaper setting dialogue box. If you use Microsoft® PLUS! 95/98 cancel the setting of "Stretch desktop wallpaper to fit the screen".

[Adjustment pattern]

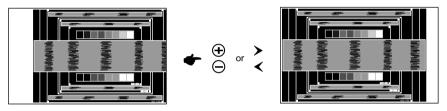


This is the image displayed at 1280 × 768.

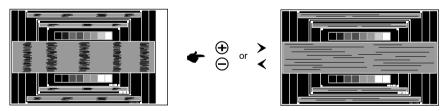
- ③ Press the Auto Button. (Auto Set-up)
- Adjust the image manually by following procedure below when the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Set-up.
- (5) Adjust the V-Position so that the top and bottom of the picture frame will fit 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.

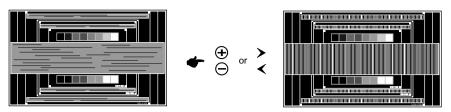


2) Stretch the right side of the picture frame to the right edge of the display area by adjusting the Clock.



- 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 Brightness and Color Temp. to get the desired picture after you complete the Clock and Phase adjustments. Put back your favorite wallpaper.

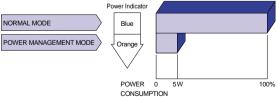
POWER MANAGEMENT FEATURE

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
 The picture does not appear. 	
(Power indicator does not light up.)	· · · · · · · · · · · · · · · · · · ·
(Power indicator is blue.)	☐ If the blank screen saver is in active mode, touch the keyboard or the mouse. ☐ Increase the Contrast and/or Brightness. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
(Power indicator is orange.)	☐ If the monitor is in power management mode, touch the keyboard or the mouse. ☐ If the input video signal selection is different, switch the Signal Select. ☐ The computer is ON. ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor.
② The screen is not synchronized.	 ☐ The Signal Cable is properly connected. ☐ The signal timing of the computer is within the specification of the monitor. ☐ The video output level of the computer is within the specification of the monitor.
3 The screen position is not in the center.	$\hfill\square$ The signal timing of the computer is within the specification of the monitor.
The screen is too bright or too dark.	☐ The video output level of the computer is within the specification of the monitor.
⑤ The screen is shaking.	☐ The power voltage is within the specification of the monitor. ☐ The signal timing of the computer is within the specification of the monitor.
Remote Control does not work.	 □ Replace with new batteries. □ The battery terminals match the "+" and "-" indications in the battery compartment. □ The Remote Sensor is bathed in an intense light such as a fluorescent light. □ There is an obstacle between the Remote Control and the Remote Sensor.

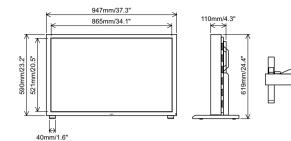
SPECIFICATIONS

		ProLite L400W-B1X	ProLite L320W-B	
LCD Driving system		a-Si TFT Active Matrix		
Panel	Size	Diagonal: 101cm / 39.6"	Diagonal: 80.2cm / 32"	
	Pixel pitch	0.6735mm H × 0.6735mm V	0.537mm H × 0.537mm V	
Brightness		500cd/m² (Typical)		
	Contrast ratio	600 : 1 (Typical)	500 : 1 (Typical)	
	Viewable angle	Right / Left / Up / Down: 85 degree	es each	
	Response time	22ms (Black, white, black)	33ms (Black, white, black)	
Display	Colors	16,777,216 maximum		
Sync Fr	equency	Horizontal: 31.47-60.24kHz, Vertica	al: 56-75Hz	
Dot Cloc	k	102.98MHz maximum		
Maximui	m Resolution	1280 × 768, 1 Mega Pixels		
Input Vi	deo Connector	D-SUB mini 15pin (ANALOG) DVI-D 24pin (DIGITAL)		
Control	Input Connector	RS-232C		
Plug & P	lay	VESA DDC2B™		
Input Sync Signal		Separate sync: TTL, Positive or Negative Composite sync: TTL, Positive or Negative Sync on green: 0.3Vp-p, Negative		
Input Vio	deo Signal	Analog: 0.7Vp-p (Standard), 75Ω, Positive Digital: DVI (Digital Visual Interface standard Rev.1.0) compliance		
Maximu	m Screen Size	862.080mm W × 517.248mm H / 33.9" W × 20.4" H	687.36mm W × 412.42mm H / 27.1" W × 16.2" H	
Power S	Source	100-230VAC, 50/60Hz, 2.3-1.0A	100-230VAC, 50/60Hz, 1.94-0.84A	
Power 0	Consumption	220W maximum 180W maximum Power management mode: 5W maximum		
Dimensions Net Weight		947 × 619 × 300mm / 37.3 × 24.4 × 11.8" (W×H×D) 31kg / 68.3lbs (With Stand) 778 × 514 × 300mm / 30.6 × 20.2 × 11.8" (W×H×D) 21kg / 46.3lbs (With Stand)		
Environr Conside		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)		
Approva	als	CE, FCC-B, UL/C-UL, VCCI-B, CCC	CE, FCC-B, UL / C-UL, VCCI-B	

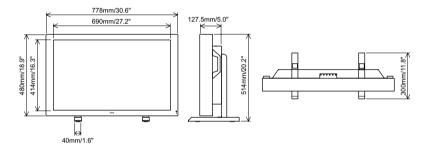
300mm/11.8"

DIMENSIONS

ProLite L400W-B1X



ProLite L320W-B



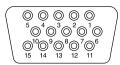
COMPLIANT TIMING

Video Mode		Horizontal Frequency	Vertical Frequency	Dot Clock	
		31.469kHz	59.940Hz	25.175MHz	
	VGA 640 × 480	37.861kHz	72.809Hz	31.500MHz]
		37.500kHz	75.000Hz	31.500MHz]
		37.879kHz	60.317Hz	40.000MHz	
	SVGA 800 × 600	48.077kHz	72.188Hz	50.000MHz	
VESA		46.875kHz	75.000Hz	49.500MHz	
VLOA		48.363kHz	60.004Hz	65.000MHz	
	XGA 1024 × 768	56.476kHz	70.069Hz	75.000MHz	
		60.023kHz	75.029Hz	78.750MHz	
		44.409kHz	56.000Hz	73.895MHz	
	WXGA 1280 × 768	47.701kHz	60.000Hz	80.136MHz	
		60.150kHz	75.000Hz	102.977MHz	
VGA TEXT	720 × 400	31.469kHz	70.087Hz	28.322MHz	*
	640 × 480	35.000kHz	66.667Hz	30.240MHz]*
Macintosh	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

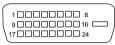
■ D-SUB mini 15pin Connector



D-SUB

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



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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 -
	·		*0 " '' \/E04 DD0

^{*} Compliant to VESA DDC.

■ RS-232C (D-SUB 9pin) Connector



D-SUB

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		

RS-232C INTERFACE

Baud Rate 9600bps

Data Format Start: 1-bit

Data: 8-bit

Parity: 0 (no Parity)

Stop: 1-bit

■ Command

Command Name	Function
POF	Turn off power
PON	Turn on power

NOTE

Transmit POF and PON commands one by one. Allow an interval of 20 or more seconds between commands.

Protocol

[STX(02hex)	ID(2Byte)	COMMAND(3Byte)	ETX(03hex)

COMMAND 3Bvte(ASCII)

APPENDIX B

Optional Video Input

This OSD Menu is available only when the optional video adapter 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.

Brightness: Press the Brightness 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.

Press the Zoom Button on the Remote Control when the menu is not displayed. Zoom:

Picture Lock: Press the Auto Button on the monitor or the Remote Control when the Menu is not displayed.

NOTE

SWITCHING BRIGHTNESS / CONTRAST ADJUSTMENT

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

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 : 1 (Video)



Adjustment Item	Problem /	Option Button to Press		
Brightness * Direct	Too dark Too bright	♦ ⊕ or > ♦ ⊕ or <		
Contrast Direct	Too dull Too intense	← ⊕ or ← ⊕ or ←		
Color	Too weak Too strong	← ⊕ or ← ⊖ or ←		
Hue	Purplish Greenish	♦ ⊕ or > ♦ ⊕ or <		
Color Temp.	9300K	Bluish white (Approx. 9300K)		
Goldi Tollip.	6500K	Reddish white (Approx. 6500K)		
	User	Red Green Blue Too weak Too strong Too weak Too w		
Gamma	Normal	Normal		
	Hi Cont.	High contrast		
	Dark	Dark		
Return to Menu	Highlight "N	∕lenu : 1" again.		

^{*} Adjust the Brightness and Contrast so that the picture is displayed naturally in Video Input mode.

Direct See page 28 for Direct.

Menu: 2 (Video)

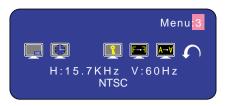


Adjustment Item	Problem / Opt	tion Button to Press
ovo Input Source	DVD	Select this in normal use.
	VCR	Correct the picture distortion and shaking.

NOTE The picture may be shaking or distorted because of the type of video equipment. In this case, select VTR. The picture may not display normally when inputting the signal of television or damaged videotape.

Picture Quality	1 2 3 4 5			
	You can change the picture quality from 1 to 5 (soft to clear). Press the + Button to change the picture quality in numerical order. Press the – Button to change the picture quality in reverse numerical order.			
Sharpness	Too soft Too sharp	♦ ⊕ or >		
Economy Mode	OFF	Normal		
	Mode 1	Brightness of back-light is reduced by Approx.10%.		
	Mode 2	Brightness of back-light is reduced by Approx.50%.		
Return to Menu	Highlight "N	∕lenu : 2" again.		

Menu: 3 (Video)



A 15 4 4 16	5 /.	. "	Button to Press	
Adjustment Item	Problem / 0	Problem / Option		
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:			
	Press the + Button to move the OSD in numerical order. Press the – Button to move the OSD in reverse numerical order.			
OSD Off Timer	You can set the OSD display time 3 to 60 seconds.		← ⊕ or >	
Kau Laak Mada	OFF	Return to Menu.		
Key Lock Mode	ON	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.				
H-Flipping	OFF	Return to Normal.		
	ON	The screen that reversed the displayed.	e right and left is	
V-Flipping	OFF	Return to Normal.		
	ON	The screen that rotated 180 degrees is displayed.		
Return to Menu	Highlight "Menu : 3" again.			

Menu:4 (Video)



Adjustment Item	Problem / Option	on		Button to Press	
Signal Select	IN 1	Select the D-SUE	3 input.		
	IN 2	Select the DVI in	Select the DVI input.		
Direct	S Video	Select the S Vide	Select the S Video input.		
	Video	Select the Video	input.		
PAL Color System	Auto	Switch the broadcast system automatically. Select			
SECAM NTSC Color System		this in normal use.			
	NTSC	Switch the broad	cast system to N	ITSC by force.	
	PAL	Switch the broad	lcast system to P	AL by force.	
	SECAM	Switch the broadcast system to SECAM by force.			
Full Screen	1 to 1	The normal scree	en display of 4:3.		
<u> </u>	Aspect	Expansion displa	y of Aspect.		
	Full	Expansion displa	y.		
Zoom	Zoom In	The screen is expanded.		← ⊕ ∧	
200111	Zoom Out	The screen is returned.		• O or	
Only the Remote Control has direct adjustment.	H-Position MENU MENU	To move the zoom point to the right. To move the zoom point to the left. To move the zoom point downward. To move the zoom point upward.		← ⊕ or ≻	
	V-Position			★ ⊕ or ^	
Language	English	English	Italiano	Italian	
	Deutsch	German	Español	Spanish	
	Français	French	Русский	Russian	
	Nederlands	Dutch	中文	Chinese	
	Svenska	Swedish	日本語	Japanese	
Reset	NO	Return to Menu.			
• 1.0001	YES	Factory-preset data is restored.			
Return to Menu	Highlight "Menu	lighlight "Menu : 4" again.			

Direct See page 28 for Direct.

Specifications for Optional Video Input

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

NOTE * Not all broadcast systems are supported.