



USER MANUAL

ProLite

LCD Monitor

ENGLISH

DEUTSCH

FRANCAIS

NEDERLANDS

ITALIANO

POLSKI

РУССКИЙ

日本語

ProLite E2001WS
ProLite E2001WSV
ProLite E2003WS
ProLite E2003WSV

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.





ENGLISH

TCO Development



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

- Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

- Energy-saving mode after a certain time – beneficial both for the user and the environment
- Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 001
- Restrictions on
 - o chlorinated and brominated flame retardants and polymers
 - o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, please visit
www.tcodevelopment.com



FCC DECLARATION OF CONFORMITY

Model Number: PL2000
Trade Name: iiyama
Responsible party: Ampronix Inc.
Address: 8697 Research Dr. Irvine, CA.92618 U.S.A.
Telephone number: 949-788-9930

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.



ENGLISH

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Regulatory information : The high efficiency LCD backlights used in this product contains 5mg or less of Mercury, the disposal of which may be regulated due to environmental considerations.

For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

This information is only for U.S.A..

We recommend recycling of used product. Please contact your dealer or iiyama service center. Recycle information is obtained via the Internet, using the address:

<http://www.iiyama.com>

You can access the Web page of different countries from there.



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. Do not remove the tilt stand when operating the monitor. 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.

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.

WHEN YOU INSTALL THE MONITOR ON YOUR COMPUTER

Be sure the computer is strong enough to hold the weight of the monitor, otherwise, you may damage your computer.

DO NOT PUT FLOPPY DISKS NEAR THE SPEAKERS

Magnetically recorded data, such as on a floppy disk, may become corrupted by the magnetic field produced by the speakers if the disks are placed on or near the speakers.

OTHERS

ERGONOMIC RECOMMENDATIONS

To eliminate eye fatigue, do not operate the monitor against a bright background or in a dark room. For optimal viewing comfort, the monitor should be just below eye level and 40-60 cm (16-24 inches) away from your eyes. 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.

2 FOR YOUR SAFETY



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 the 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.
- 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.

FOR YOUR SAFETY 3

BEFORE YOU OPERATE THE MONITOR

FEATURES

- ◆ 51.1cm (20.1") TFT Color LCD Monitor
- ◆ Supports Resolutions up to 1680 × 1050
- ◆ High Contrast 1000:1 / Quick Response Time 5ms : ProLite E2001
- ◆ High Contrast 2000:1 (DCR) / Quick Response Time 2ms (Gray to Gray) : ProLite E2003
- ◆ Digital Character Smoothing
- ◆ Automatic Set-up
- ◆ Stereo Speakers
2 × 1W Stereo Speakers
- ◆ Plug & Play VESA DDC2B Compliant
Windows® 95/98/2000/Me/XP/Vista Compliant
- ◆ Power Management (ENERGY STAR® VESA DPMS Compliant)
- ◆ Ergonomic Design: TCO '03 and MPR III Approved
- ◆ Digital Input (DVI-D, HDCP Compliant) for Clear Display :
ProLite E2001WS / E2003WS
- ◆ VESA Mounting Standard (100mm×100mm) Compliant

CHEKING 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 | ■ DVI-D Signal Cable*2 |
| ■ Audio Cable | ■ Stand | ■ 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 Accessory for ProLite E2001WS / E2003WS



HOW TO USE THE STAND

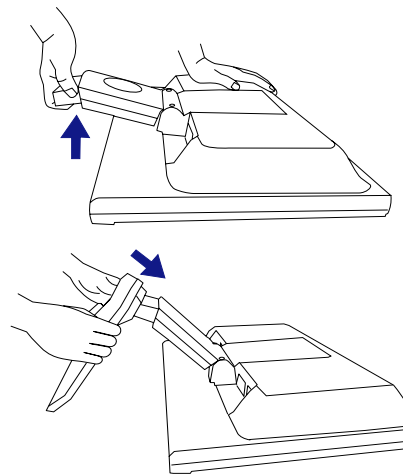
The monitor is shipped with the stand detached. Be sure to attach the stand before operating the display and remove if it is necessary to re-box.

CAUTION

- 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>

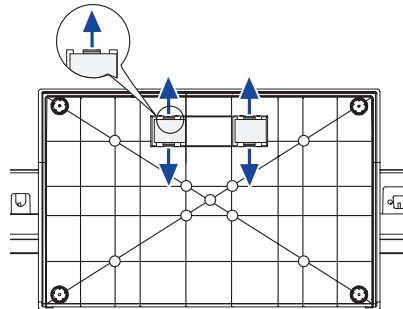
1. Put a piece of soft cloth on the table beforehand to prevent the monitor from being scratched. Lay the monitor flat on a table with front face down.
2. The Stand-Bottom is pulled up as shown in the figure.
3. Install the Stand-Base to the Stand-Bottom.



ENGLISH

<Remove>

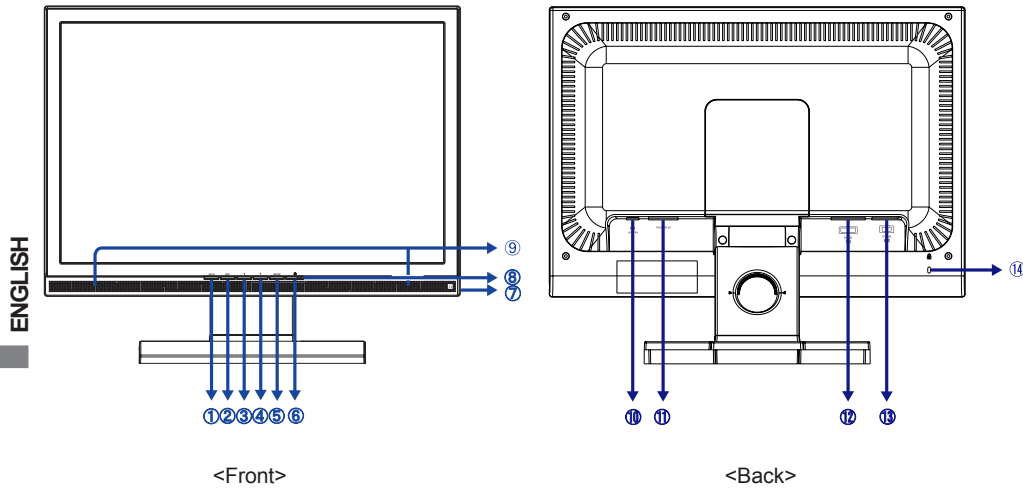
1. Put a piece of soft cloth on the table beforehand to prevent the monitor from being scratched. Lay the monitor flat on a table with front face down.
2. Hold down the hooks outside and pull the Stand-Base away from the Stand-Bottom.



BEFORE YOU OPERATE THE MONITOR 5



CONTROLS AND CONNECTORS



- ① Auto Button (AUTO)
- ② Exit / Volume Button (EXIT)
- ③ Scroll Down / Contrast Button (◀)
- ④ Scroll Up / Brightness Button (▶)
- ⑤ Menu / Select Button (ENTER)
- ⑥ Power Switch (⏻)
- ⑦ Headphone Connector
- ⑧ Power Indicator

NOTE Green: Normal operation
Orange: Power Management

The monitor enters into power management mode which reduces the power consumption to less than 2W when receiving no horizontal and/or vertical sync signal.

- ⑨ Speakers
- ⑩ Audio Connector (LINE IN)
- ⑪ AC Connector (POWER IN)
- ⑫ DVI-D 24pin Connector (DVI) *
- ⑬ D-SUB mini 15pin Connector (D-SUB)
- ⑭ Keyhole for Security Lock

NOTE You can fasten a security lock and cable to prevent the monitor from being removed without your permission.

* Available for ProLite E2001WS / E2003WS only.



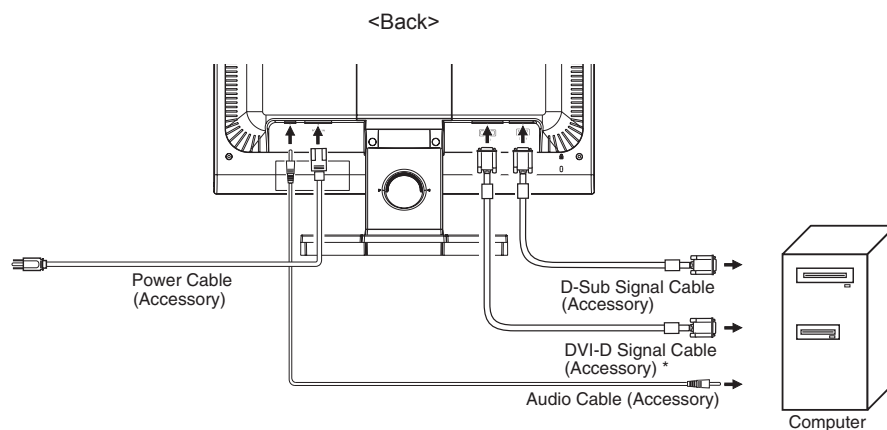
CONNECTING YOUR MONITOR

- 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 25 for CONNECTOR PIN ASSIGNMENT.)
- ③ Connect the monitor to the audio equipment with the Audio Cable for computer when using the audio features.
- 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. The cable supplied with the monitor is for a standard 15 pin D-Sub connector. If a special cable is required please contact your local iiyama dealer or regional iiyama office.
 - 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.

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[Example of Connection]



* Available for ProLite E2001WS / E2003WS only.

BEFORE YOU OPERATE THE MONITOR 7



COMPUTER SETTING

■ Signal Timing

Change to the desired signal timing listed on page 24: COMPLIANT TIMING.

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

The iiyama LCD monitor complies with DDC2B of VESA standard. The Plug & Play function runs on Windows 95/98/2000/Me/XP/Vista by connecting the monitor to DDC2B compliant computer with the Signal Cable supplied.

For installation on Windows 95/98/2000/Me/XP: The monitor Information File for iiyama monitors may be necessary for your computer and obtained via the Internet, using the address:

<http://www.iiyama.com>

NOTE

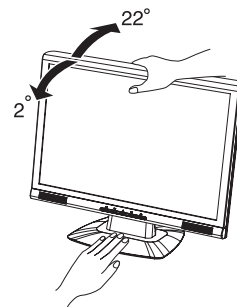
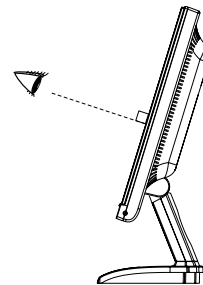
- For additional information on how to download the driver for your touch screen monitor, please access the internet site noted above.
- Monitor Drivers are not required in most cases for Windows Vista, Macintosh or Unix operating systems. For further information, please contact your computer dealer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

ADJUSTING THE VIEWING ANGLE

- For optimal viewing it is recommended to look at the full face of the monitor.
- Hold the stand so that the monitor does not topple when you change the monitor's angle.
- You are able to adjust the monitor's angle up to 22 degrees upward, 2 degrees downward.
- In order to ensure a healthy and relaxed body position when using the monitor at visual display workstations, it is recommended that the adjusted tilt angle should not exceed 10 degrees. Adjust the monitor's angle to your own preference.

NOTE

- Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.
- Careful attention is required not to catch your fingers or hands when you change the angle.
- Do not tilt the post beyond 20 degrees except when repacking the monitor in its box. To do so may cause the monitor to fall over and break.

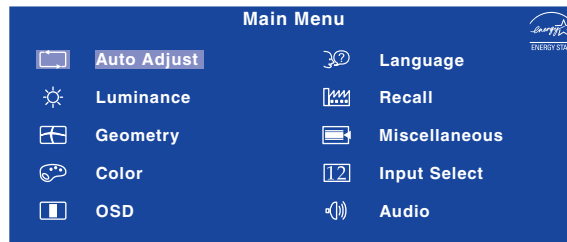





OPERATING THE MONITOR

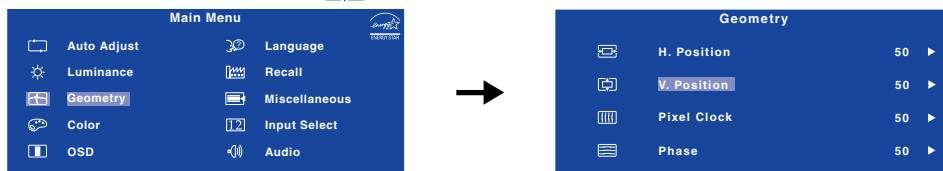
To create the best picture, your iiyama LCD monitor has been preset at the factory with the COMPLIANT TIMING shown on page 24. You are also able to adjust the picture by following the button operation shown below. For more detailed adjustments, see page 14 for SCREEN ADJUSTMENTS.

- 1 Press the ENTER Button to start the On Screen Display feature. There are additional Menu items which can be switched by using the ◀ / ▶ Buttons.



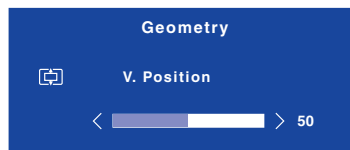
- 2 Select the Menu item which contains the adjustment icon relating to the adjustment you want to make. Press the ENTER Button. Then, use the ◀ / ▶ Buttons to highlight the desired adjustment icon.
- 3 Press the ENTER Button again. Use the ◀ / ▶ Buttons to make the appropriate adjustment or setting.
- 4 Press the EXIT Button to leave the menu, and the settings you just made would be automatically saved.

For example, to correct for vertical position, select Menu item of Geometry and then press the ENTER Button. Then, select  (V.Position) by using the ◀ / ▶ Buttons.



An adjustment page appears after you press the ENTER Button. Then, use the ◀ / ▶ Buttons to change the vertical position settings. The vertical position of the overall display should be changing accordingly while you are doing this.

Press the EXIT Button lastly, it ends, any changes are saved in the memory.



NOTE

- When button operations are aborted during adjustment, On-Screen Display disappears when the time set for the OSD Time has passed. Also, press the EXIT button to quickly turn off the On-Screen Display.
- 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 H. / V. Position, Pixel Clock and Phase are saved for each signal timing. Except for these adjustments, all other adjustments have only one setting which applies to all signal timings.

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ADJUSTMENT MENU CONTENTS

Auto Adjust Only Analog Input	
Adjustment Item	Problem / Option Button to Press
Auto Adjust * Direct	Adjust H. / V. Position, Pixel Clock and Phase automatically.

* For best results, use the Auto Adjust in conjunction with the adjustment pattern. See page 14 for SCREENADJUSTMENTS.

Direct

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

- Auto Adjust: Press the Auto Button when the Menu is not displayed.

Luminance *1	
Adjustment Item	Problem / Option Button to Press
Brightness *2 Direct	Too dark Too bright
Contrast Direct	Too dull Too intense

*1 Luminance adjustment disabled when DCR mode is active.

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




























Direct






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

















- Contrast: Press the ◀ Button when the Menu is not displayed.
- Brightness: Press the ▶ Button when the Menu is not displayed.



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 Geometry Only Analog Input	
Adjustment Item	Problem / Option Button to Press
 H. Position	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">  Too left </div> <div style="display: flex; align-items: center;">  Too right </div> </div> <div style="display: flex; justify-content: flex-end; gap: 10px;">     </div>
 V. Position	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">  Too low </div> <div style="display: flex; align-items: center;">  Too high </div> </div> <div style="display: flex; justify-content: flex-end; gap: 10px;">     </div>
 Pixel Clock	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;">  Too narrow </div> <div style="display: flex; align-items: center;">  Too wide </div> </div> <div style="display: flex; justify-content: flex-end; gap: 10px;">     </div>
 Phase	To correct flickering text or lines <div style="display: flex; justify-content: flex-end; gap: 10px;">     </div>

 Color		
Adjustment Item	Problem / Option Button to Press	
9300K	Bluish white	
7500K	Yellowish white	
6500K	Reddish white	
User Preset	Red	Too weak  
	Green	
	Blue	Too strong  



 OSD	
Adjustment Item	Problem / Option Button to Press
 H. Position	OSD is too left   OSD is too right  
 V. Position	OSD is too low   OSD is too high  
 OSD Time	You can set the OSD display duration time between 5 and 30 seconds. <div style="display: flex; justify-content: flex-end; gap: 10px;">     </div>



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Language				
Adjustment Item	Problem / Option		Button to Press	
Language	English	English	Español	Spanish
	Français	French	Nederlands	Dutch
	Deutsch	German	日本語	Japanese
	Italiano	Italian	简体中文	Simplified Chinese
	Polski	Polish	Русский	Russian

Recall		
Adjustment Item	Problem / Option	Button to Press
Recall All	Yes	Factory-preset data is restored.
	No	Return to Menu.

Miscellaneous		
Adjustment Item	Problem / Option	Button to Press
Sharpness	1 2 3 4 5	 
DDC/CI	On	DDC/CI is turned ON.
	Off	DDC/CI is turned OFF.
<p>NOTE DDC/CI On and Off are switched as follows by pressing the ► Button successively.</p> <p style="text-align: center;">> On-> Off <</p>		
Display Information	<p>Displays information regarding the current input signal coming from the graphic card in your computer.</p> <div style="border: 1px solid black; background-color: #003366; color: white; padding: 5px; text-align: center;"> <p>Miscellaneous</p> <p>⊕ Display Information</p> <p>1680x1050 @ 60 Hz</p> </div> <p>NOTE See your graphic card user guide for more information about changing the resolution and refresh.</p>	



Miscellaneous		
Adjustment Item	Problem / Option	Button to Press
DCR	On	Increased Contrast Ratio
	Off	Typical Contrast Ratio
OD	0 1 2 3 4 5	

You can set the OverDrive level between 0 and 5. It will improve the gray level response time of the LCD panel. A higher level results in a faster response time.

12 Input Select Available for ProLite E2001WS / E2003WS only.		
Adjustment Item	Problem / Option	Button to Press
Input Select	D-sub	Select the Analog input.
	DVI	Select the Digital input.

NOTE When only one of the two signal inputs is connected to the signal source, the one connected is automatically selected. Input Select function is not available if there is no signal input from the selected connector or during the power management mode.

Audio		
Adjustment Item	Problem / Option	Button to Press
Volume Direct	Too soft Too loud	
Mute	On	Turn off the sound temporarily.
	Off	Return the sound volume to the previous level.

NOTE ■ Mute On and Off are switched as follows by pressing the Button successively.
> On → Off

Direct

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

- Volume: Press the Exit Button when the Menu is not displayed.

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 1680 × 1050, but can not provide the best at resolutions of less than 1680 × 1050 because the picture is automatically stretched to fit the full screen. It is recommended to operate at resolution of 1680 × 1050 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 the computer software or utilities.
- Perform adjustments after a warm-up period of at least thirty minutes.
- Additional adjustments may be required after the Auto Adjust depending on the resolution or signal timing.
- The Auto Adjust 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 Position, Pixel Clock and Phase. The other way is performing each adjustment manually.

Perform the Auto Adjust 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 Adjust, manual adjustments are required. Both adjustments should be made by using the screen adjustment pattern (Test.bmp) obtained via the IYAMA web site (<http://www.iiyama.com>).

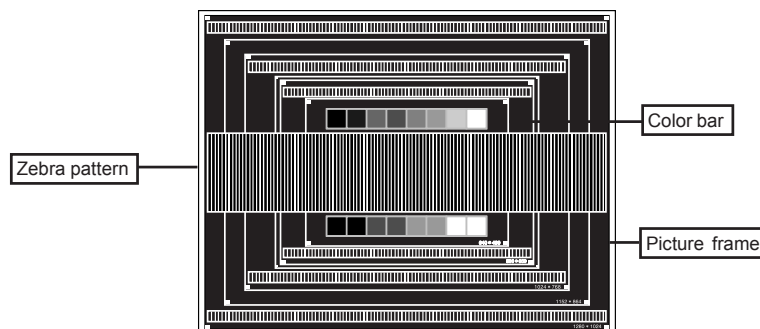
Adjust the image by following the procedure below to get the desired picture.
This manual explains adjustment under Windows 95/98/2000/Me/XP.

- ① Display the picture at the optimum resolution.
- ② Enter the Test.bmp (screen adjustment pattern) to wallpaper.

NOTE

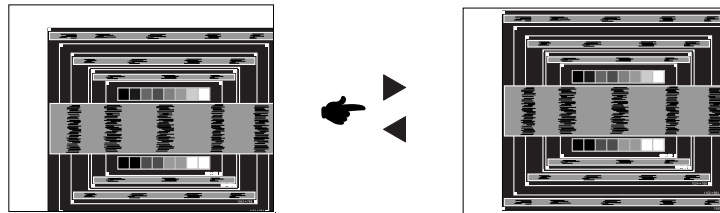
- Consult the appropriate documentation for doing this.
- Test.bmp is made at resolution of 1280 × 1024. Set the display position to center in the wallpaper setting dialogue box. If you use Microsoft® PLUS! 95/98 cancel the setting of "Stretch desktop wallpaper to fit the screen".

[Adjustment pattern]

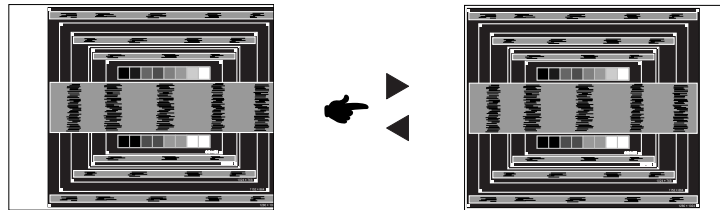




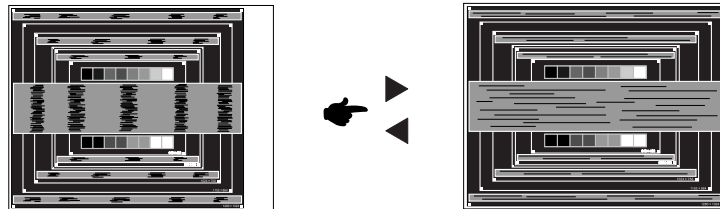
- ③ Press the Auto Button. (Auto Adjust)
- ④ Adjust the image manually by following procedure below when the screen has a flicker or blur, or the picture does not fit in the display area after performing the Auto Adjust.
- ⑤ Adjust the V.Position so that the top and bottom of the picture frame will fit 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.



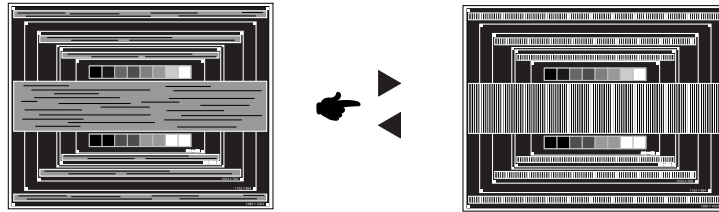
- 2) Stretch the right side of the picture frame to the right edge of the display area by adjusting the Pixel Clock.



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



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



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NOTE

- In case the strong flicker or blurs remain on a part of the screen, repeat steps ⑥ and ⑦ because the Pixel 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 to get the desired picture after you complete the Pixel Clock and Phase adjustments.
Put back your favorite wallpaper.





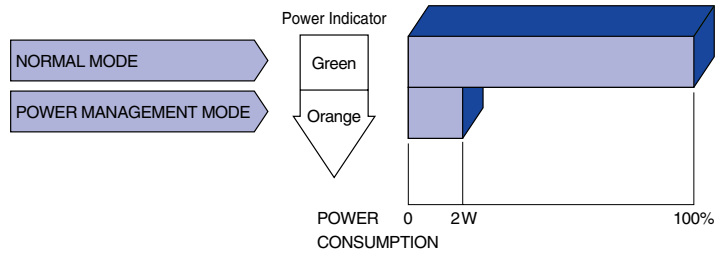
POWER MANAGEMENT FEATURE

The power management feature of this product complies with 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 2W. 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.)

- The Power Cable is firmly seated in the socket.
- The Power Switch is turned ON.
- The AC socket is live. Please check with another piece of equipment.

(Power indicator is green.)

- 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.
- 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.

- The signal timing of the computer is within the specification of the monitor.

- ④ 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.



Problem

Check

- | | |
|--|--|
| <p>⑥ No sound.</p> <p>⑦ The sound is too loud or too quiet.</p> <p>⑧ A strange noise is heard.</p> | <p><input type="checkbox"/> The audio equipment (computer etc.) is ON.</p> <p><input type="checkbox"/> The Audio Cable is properly connected.</p> <p><input type="checkbox"/> The Volume is turned up.</p> <p><input type="checkbox"/> The Mute is OFF.</p> <p><input type="checkbox"/> The audio output level of the audio equipment is within the specification of the monitor.</p> <p><input type="checkbox"/> The audio output level of the audio equipment is within the specification of the monitor.</p> <p><input type="checkbox"/> The Audio Cable is properly connected.</p> |
|--|--|

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RECYCLING INFORMATION

For better environment protection please don't dispose your monitor.

Please visit our web site: www.iiyama.com/recycle for monitor recycling.



APPENDIX

SPECIFICATIONS

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		ProLite E2001WS
LCD Panel	Driving system	a-Si TFT Active Matrix
	Size	Diagonal: 51.1cm / 20.1"
	Pixel pitch	0.258mm H × 0.258mm V
	Brightness	250cd/m ² (Typical)
	Contrast ratio	1000 : 1 (Typical)
	Viewable angle	Right / Left / Up / Down: 80 degrees each (Typical)
	Response time	5ms (Black, white, black)
Display Colors		Approx.16.2M (6bit+FRC dithering)
Sync Frequency		Horizontal: 31.0-83.0kHz, Vertical: 56-75Hz
Dot Clock		165MHz maximum
Maximum Resolution		1680 × 1050, 1.8 MegaPixels
Input Connector		D-Sub mini 15 pin, DVI-D 24 pin
Plug & Play		VESA DDC2B™
Input Sync Signal		Separate sync: TTL, Positive or 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 mini jack (Stereo)
Input Audio Signal		0.5Vrms maximum
Speakers		1W × 2 (Stereo speakers)
Maximum Screen Size		433.4mm W × 270.9mm H / 17.1" W × 10.7" H
Power Source		100-240VAC, 50/60Hz, 1.3A
Power Consumption		49W maximum, Power management mode: 2W maximum*
Dimensions / Net Weight		480.0× 399.0 × 188.0mm / 18.9 × 15.7 × 7.4" (W×H×D), 4.4kg / 9.7lbs
Tilt Angle		Up: 22 degrees, Down: 2 degrees
Environmental Considerations		Operating: Temperature 5 to 35°C / 41 to 95°F Humidity 10 to 80% (No condensation) Storage: Temperature -20 to 60°C / -4 to 140°F Humidity 10 to 70% (No condensation)
Approvals		TCO '03, CE, TÜV-GS / MPR III (prEN50279) / ISO 13406-2, FCC-B, UL/C-UL, VCCI-B, GOST-R

NOTE * Condition: Audio equipment is not connected.



		ProLite E2001WSV
LCD Panel	Driving system	a-Si TFT Active Matrix
	Size	Diagonal: 51.1cm / 20.1"
	Pixel pitch	0.258mm H × 0.258mm V
	Brightness	250cd/m ² (Typical)
	Contrast ratio	1000 : 1 (Typical)
	Viewable angle	Right / Left / Up / Down: 80 degrees each (Typical)
	Response time	5ms (Black, white, black)
Display Colors		Approx. 16.2M (6bit+FRC dithering)
Sync Frequency		Horizontal: 31.0-83.0kHz, Vertical: 56-75Hz
Dot Clock		165MHz maximum
Maximum Resolution		1680 × 1050, 1.8 MegaPixels
Input Connector		D-Sub mini 15 pin
Plug & Play		VESA DDC2B™
Input Sync Signal		Separate sync: TTL, Positive or Negative
Input Video Signal		Analog: 0.7Vp-p (Standard), 75Ω, Positive
Input Audio Connector		ø 3.5mm mini jack (Stereo)
Input Audio Signal		0.5Vrms maximum
Speakers		1W × 2 (Stereo speakers)
Maximum Screen Size		433.4mm W × 270.9mm H / 17.1" W × 10.7" H
Power Source		100-240VAC, 50/60Hz, 1.3A
Power Consumption		49W maximum, Power management mode: 2W maximum*
Dimensions / Net Weight		480.0 × 399.0 × 188.0mm / 18.9 × 15.7 × 7.4" (W×H×D), 4.4kg / 9.7lbs
Tilt Angle		Up: 22 degrees, Down: 2 degrees
Environmental Considerations		Operating: Temperature 5 to 35°C / 41 to 95°F Humidity 10 to 80% (No condensation) Storage: Temperature -20 to 60°C / -4 to 140°F Humidity 10 to 70% (No condensation)
Approvals		TCO '03, CE, TÜV-GS / MPR III (prEN50279) / ISO 13406-2, FCC-B, UL / C-UL, VCCI-B, GOST-R

NOTE * Condition: Audio equipment is not connected.

		ProLite E2003WS
LCD Panel	Driving system	a-Si TFT Active Matrix
	Size	Diagonal: 51.1cm / 20.1"
	Pixel pitch	0.258mm H × 0.258mm V
	Brightness	300cd/m ² (Typical)
	Contrast ratio	1000 : 1 (Typical), 2000 : 1 (DCR)
	Viewable angle	Right / Left / Up / Down: 85 degrees each (Typical)
	Response time	5ms (Typical), 2ms (Gray to Gray)
Display Colors		Approx. 16.7M
Sync Frequency		Horizontal: 31.0-83.0kHz, Vertical: 56-75Hz
Dot Clock		165MHz maximum
Maximum Resolution		1680 × 1050, 1.8 MegaPixels
Input Connector		D-Sub mini 15 pin, DVI-D 24 pin
Plug & Play		VESA DDC2B™
Input Sync Signal		Separate sync: TTL, Positive or 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 mini jack (Stereo)
Input Audio Signal		0.5Vrms maximum
Speakers		1W × 2 (Stereo speakers)
Maximum Screen Size		433.4mm W × 270.9mm H / 17.1" W × 10.7" H
Power Source		100-240VAC, 50/60Hz, 1.3A
Power Consumption		49W maximum, Power management mode: 2W maximum*
Dimensions / Net Weight		480.0×399.0 × 188.0mm / 18.9 × 15.7 × 7.4" (W×H×D), 4.4kg / 9.7lbs
Tilt Angle		Up: 22 degrees, Down: 2 degrees
Environmental Considerations		Operating: Temperature 5 to 35°C / 41 to 95°F Humidity 10 to 80% (No condensation) Storage: Temperature -20 to 60°C / -4 to 140°F Humidity 10 to 70% (No condensation)
Approvals		TCO '03, CE, TÜV-GS / MPR III (prEN50279) / ISO 13406-2, FCC-B, UL/C-UL, VCCI-B, GOST-R

NOTE * Condition: Audio equipment is not connected.



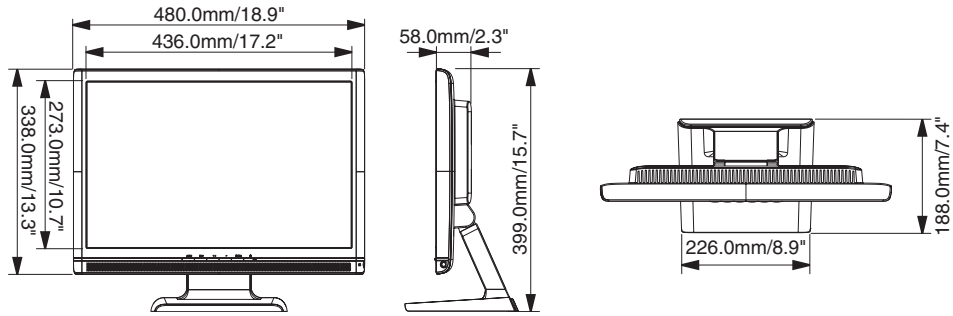
		ProLite E2003WSV
LCD Panel	Driving system	a-Si TFT Active Matrix
	Size	Diagonal: 51.1cm / 20.1"
	Pixel pitch	0.258mm H × 0.258mm V
	Brightness	300cd/m ² (Typical)
	Contrast ratio	1000 : 1 (Typical), 2000 : 1 (DCR)
	Viewable angle	Right / Left / Up / Down: 85 degrees each (Typical)
	Response time	5ms (Typical), 2ms (Gray to Gray)
Display Colors	Approx.16.7M	
Sync Frequency	Horizontal: 31.0-83.0kHz, Vertical: 56-75Hz	
Dot Clock	165MHz maximum	
Maximum Resolution	1680 × 1050, 1.8 MegaPixels	
Input Connector	D-Sub mini 15 pin	
Plug & Play	VESA DDC2B™	
Input Sync Signal	Separate sync: TTL, Positive or Negative	
Input Video Signal	Analog: 0.7Vp-p (Standard), 75Ω, Positive	
Input Audio Connector	ø 3.5mm mini jack (Stereo)	
Input Audio Signal	0.5Vrms maximum	
Speakers	1W × 2 (Stereo speakers)	
Maximum Screen Size	433.4mm W × 270.9mm H / 17.1" W × 10.7" H	
Power Source	100-240VAC, 50/60Hz, 1.3A	
Power Consumption	49W maximum, Power management mode: 2W maximum*	
Dimensions / Net Weight	480.0× 399.0 × 188.0mm / 18.9 × 15.7 × 7.4" (W×H×D), 4.4kg / 9.7lbs	
Tilt Angle	Up: 22 degrees, Down: 2 degrees	
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Approvals	TCO '03, CE, TÜV-GS / MPR III (prEN50279) / ISO 13406-2, FCC-B, UL / C-UL, VCCI-B, GOST-R	

NOTE * Condition: Audio equipment is not connected.



DIMENSIONS

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COMPLIANT TIMING

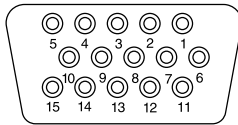
Video Mode		Horizontal Frequency	Vertical Frequency	Dot Clock
VESA	VGA 640 × 480	31.468kHz	59.941Hz	25.175MHz
		37.500kHz	74.997Hz	31.500MHz
	SVGA 800 × 600	37.878kHz	60.317Hz	40.000MHz
		46.875kHz	75.001Hz	49.500MHz
	XGA 1024 × 768	48.362kHz	60.002Hz	65.000MHz
		60.024kHz	75.039Hz	78.750MHz
	WXGA 1280 × 768	47.396kHz	60.000Hz	68.250MHz
	Quad-VGA 1280 × 960	60.000kHz	60.000Hz	108.000MHz
SXGA 1280 × 1024	63.979kHz	60.029Hz	108.000MHz	
	79.974kHz	75.024Hz	135.000MHz	
WXGA+ 1440 × 900	55.935kHz	59.887Hz	106.500MHz	
WSXGA+ 1680 × 1050	65.290kHz	60.000Hz	146.250MHz	
VGA TEXT	720 × 400	31.468kHz	70.086Hz	28.322MHz
Macintosh	832 × 624	49.724kHz	74.532Hz	57.280MHz
	1152 × 870	68.680kHz	75.060Hz	100.000MHz

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
2	Green video	10	Ground
3	Blue video	11	NC
4	NC	12	Data line (SDA)*
5	Ground	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 *1



DVI-D

Pin	Input Signal	Pin	Input Signal
1	T.M.D.S Data 2-	13	
2	T.M.D.S Data 2+	14	+5V
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) *2	18	T.M.D.S Data 0+
7	Data line (SDA) *2	19	T.M.D.S Data 0 Ground
8	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 -

*2 Compliant to VESA DDC.

*1 Available for ProLite E2001WS / E2003WS only.

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