# ThinkVision

# L2240p Wide Flat Panel Monitor User's Guide



# Product number

4422-H\*6

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#### Safety information

Before installing this product, read the Safety Information.

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Antes de instalar este produto, leia as Informações de Segurança.

在安装本产品之前,请仔细阅读 Safety Information (安全信息)。

Prije instaliranja ovog proizvoda obavezno pročitajte sigurnosne upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt. Ennen kuin asennatt ämän tuotteen, lue turvaohjeet kohdasta Safety Information. Avant d'installer ce produit, lisez les consignes de sécurité. Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

Πριν εγκαταστήσετε το προϊόν αυτό, διαβάστε τις πληροφορίες ασφάλειας (safety information).

לפני שתתקינו מוצר זה, קראו את הוראות הבטיחות.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza.

製品の設置の前に、安全情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 읽으십시오.

Пред да се инсталира овој продукт, прочитајте информацијата за безбедност.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften. Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

Przed zainstalowaniem tego produktu, należy zapoznać się z książką "Informacje dotyczące bezpieczeństwa" (Safety Information).

Antes de instalar este produto, leia as Informações sobre Segurança.

Перед установкой продукта прочтите инструкции по технике безопасности.

Pred inštaláciou tohto produktu si prečítajte bezpečnostné informácie.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Antes de instalar este producto lea la información de seguridad. Läs säkerhetsinformationen innan du installerar den här produkten.

# សូមអានពត៌មានល្អិតល្អន់ មុនពេលចាប់ផ្តើមបញ្ចូលកម្មវិធី

安裝本產品之前,請先閱讀「安全資訊」。

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# **Safety and Maintenance Guidelines**

#### **Important Safety Information**

The power cord is designed for use with your monitor. To use a different cord, use only a power source and connection compatible with this monitor.



**WARNING:** Always connect your monitor, the computer, and other equipment to a grounded (earthed) power outlet. To reduce the risk of electric shock or damage to your equipment, do not diable the power cord grounding feature. The grounding plug is an important safety feature.



**WARNING:** For your safety, be sure that the grounded power outlet you plug the power cord into is easily accessible to the operator and located as close to the equipment as possible. To disconnect power from the equipment, unplug the power cord from the power outlet by grasping the plug firmly. Never pull on the cord.

**CAUTION:** To protect your monitor, as well as your computer, connect all power cords for your computer and its peripheral devices (such as a monitor, printer, or scanner) to a surge protection device such as a power strip with surge protection or uninterruptible power supply (UPS).

Not all power strips provide surge protection; the power strips must be specifically labeled as having this ability. Use a power strip whose manufacturer offers a damage replacement policy, so you can replace your equipment if surge protection fails.



**CAUTION**: A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm<sup>2</sup>) or H05VVH2-F2 3G 0.75mm<sup>2</sup>) shall be used. Alternative a flexible cord be of synthetic rubber.

#### **Safety Precautions**

- Use only a power source and connection compatible with this monitor, as indicated on the label/back plate of the monitor.
- Be sure the total ampere rating of the products connected to the outlet dose not exceed the current rating of the electrical outlet, and the total ampere rating of the products connected to the power cord does not exceed the rating of the power cord. Look on the power label to determine the ampere rating (Amps or A) for each device.
- Install your monitor near a power outlet that you can easily reach. Disconnect the monitor by grasping the plug firmly and pulling it from the outlet. Never disconnect the monitor by pulling the cord.
- Do not allow anything to rest on the power cord. Do not walk on the cord.

#### **Maintenance Guidelines**

To enhance the performance and extend the life of your monitor:

- Do not open your monitor cabinet or attempt to service this product yourself. If your monitor is not operating properly or has been dropped or damaged, contact your Hewlett-Packard authorized dealer, reseller, or service provider.
- Adjust only those controls that are described in the operating instructions.
- Turn your monitor off when not in use. You can substantially increase the life expectancy of the monitor by using a screen saver program and turning off the monitor when not in use.
- Keep your monitor in a well-ventilated area, away from excessive light, heat, or moisture.
- Slots and openings in the cabinet are provided for ventilation. These openings must not be blocked or covered. Never push objects of any kind into cabinet slots or other openings.
- Unplug the monitor from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- Do not drop the monitor or place it on an unstable surface.
- When removing the monitor base, you must lay the monitor face down on a soft area to prevent it from getting scratched, defaced, or broken.

#### **Cleaning the Monitor**

The monitor is a high-quality optical device that requires special care when cleaning. To clean the monitor, follow these steps:

- 1. Turn off the computer and the monitor.
- 2. Unplug your monitor from the power outlet before cleaning.

**CAUTION:** Do not use benzene, thinner, ammonia, or any volatile substance to clean the monitor screen or cabinet. These chemicals may damage the monitor. Do not use liquid or aerosol cleaners. Never user water to clean an LCD screen.

- **3.** Wipe the screen with a dry, soft, clean cloth.
- If the screen requires additional cleaning, use an antistatic screen cleaner.
- **4.** Dust the monitor housing. Use a damp cloth to clean the cabinet.
- If the cabinet requires additional cleaning, use a clean cloth dampened with isopropyl alcohol.
- 5. Plug in the monitor.
- 6. Turn on the monitor and the computer.

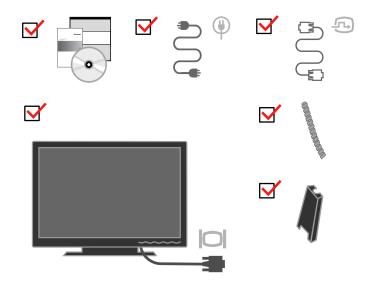
#### **Chapter 1. Getting started**

This User's Guide contains detailed information on the ThinkVision<sup>™</sup> L2240p Wide Flat Panel Monitor. For a quick overview, please see the Setup Poster that was shipped with your monitor.

#### **Shipping contents**

The product package should include the following items:

- Setup Poster
- Monitor Safety, Troubleshooting, and Warranty Guide
- Reference and Driver CD
- Flat Panel Monitor
- Power Cord
- Analog Interface Cable- Attached to monitor
- Digital Interface Cable
- Cable Wrapper
- Cable Cover



**Note:** To attach a VESA mount, please see "Detaching the monitor stand" on page 2-7.

#### **Product overview**

This section will provide information on adjusting monitor positions, setting user controls, and using the cable lock slot.

#### Types of adjustments

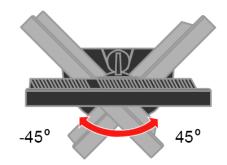
#### Tilt

Please see the illustration below for an example of the tilt range.



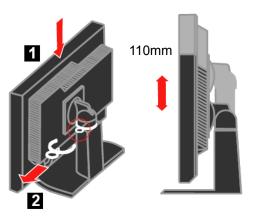
#### Swivel

With the built-in pedestal, you can tilt and swivel the monitor for the most comfortable viewing angle.



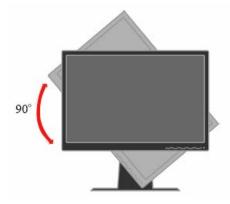
#### **Height Adjustment**

After pressing the top of the monitor, remove the fixed pin and adjust the height of the monitor.



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#### **Monitor Pivot**



- Adjust height to the top position before rotation the monitor.

- Rotate clockwise until the monitor stops at 90°.

#### **User controls**

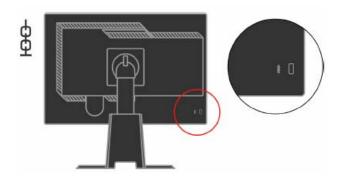
Your monitor has controls on the front which are used to adjust the display.



For information on how to use these controls, please see "Adjusting your monitor image " on page 2-3.

#### Cable lock slot

Your monitor is equipped with a cable lock slot located on the rear of your monitor (in the lower right corner). Please follow the instructions that came with the cable lock to attach it.



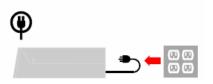
#### Setting up your monitor

This section provides information to help you set up your monitor.

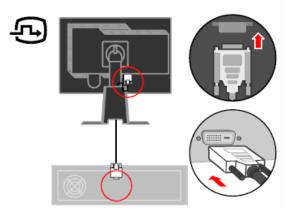
#### Connecting and turning on your monitor

**Note:** Be sure to read the Safety Information located in the Monitor Safety, Troubleshooting, and Warranty Guide before carrying out this procedure.

1. Power off your computer and all attached devices, and unplug the computer power cord.

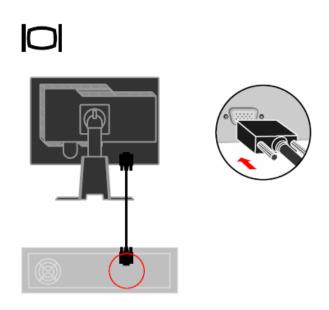


2. Connect the digital signal cable to the video port on the back of the computer. **Note**: One end of the signal cable is already pre-attached to your monitor.

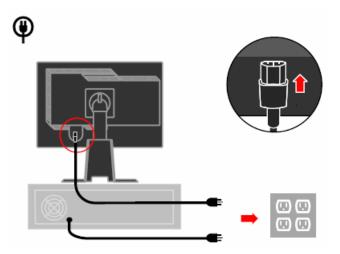


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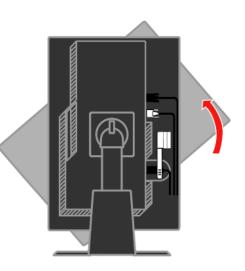
3. Connect the analog signal cable to the D-SUB connector of the monitor and the other end on the back of the computer.



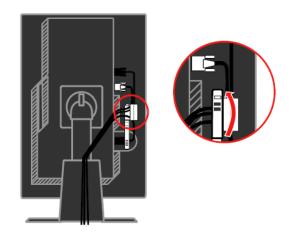
4. Plug the monitor power cord and the computer cord into grounded electrical outlets. **Note**: A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm<sup>2</sup> or H05VVH2-F2 3G 0.75mm<sup>2</sup>) shall be used. Alternative a flexible cord be of synthetic rubber according to IEC 60245 (designation H05RR-F 3G 0.75mm<sup>2</sup>) shall be used.



5. Rotate the head of the monitor into portrait view.

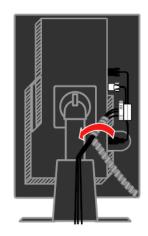


6. Place the cables through the Main Clip. Then fasten the clip.

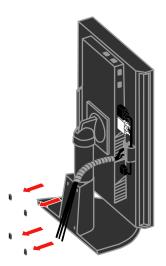


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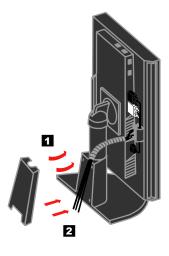
7. Wrap the Cable Wrapper around the cables.



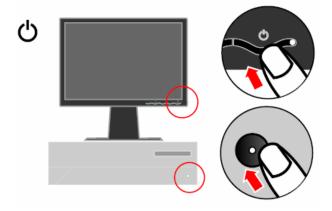
8. Remove the four rubbers from the stand.



9. Replace the Cable Cover.



10. Power on the monitor and the computer.



**11.** To install the monitor driver, insert the Reference and Driver CD, click **Install driver**, and follow the on-screen instructions.



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12. To optimize your monitor image, if using the analog cable, press the Automatic Image Setup key. Automatic image setup requires that the monitor is warmed up for at least 15 minutes. This is not required if you are using the DVI cable.



**Note**: If automatic image setup does not establish the image that you prefer, perform manual image setup. See "Manual image setup" on page 3-2.

#### **Registering your option**

Thank you for purchasing this Lenovo® product. Please take a few moments to register your product and provide us with information that will help Lenovo to better serve you in the future. Your feedback is valuable to us in developing products and services that are important to you, as well as in developing better ways to communicate with you. Register your option on the following Web site: http://www.lenovo.com/register

Lenovo will send you information and updates on your registered product unless you indicate on the Web site questionnaire that you do not want to receive further information.

Chapter 1. Getting started 1-9

#### Chapter 2. Adjusting and using your monitor

This section will give you information on adjusting and using your monitor.

#### Comfort and accessibility

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer.

For more detailed information on any of these topics, visit the Healthy Computing Web site at: http://www.lenovo.com/healthycomputing

#### Arranging your work area

Use a work surface of appropriate height and available working area to allow you to work in comfort.

Organize you work area to match the way you use materials and equipment. Keep your work area clean and clear for the materials that you typically use and place the items that you use most frequently, such as the computer mouse or telephone, within the easiest reach.

Equipment layout and setup play a large role in your working posture. The following topics describe how to optimize equipment setup to achieve and maintain good working posture.

#### Positioning and viewing your monitor

Position and adjust your computer monitor for comfortable viewing by considering the following items:

- Viewing distance: Optimal viewing distances for monitors range from approximately 510mm to 760mm (20 in to 30 in) and can vary depending on ambient light and time of day. You can achieve different viewing distances by repositioning your monitor or by modifying your posture or chair position. Use a viewing distance that is most comfortable for you.
- Monitor height: Position the monitor so your head and neck are in a comfortable and neutral (vertical, or upright) position. If your monitor does not have height adjustments, you might have to place books or other sturdy objects under the base of the monitor to achieve the desired height. A general guideline is to position the monitor such that the top of the screen is at or slightly below your eye-height when you are comfortably seated. However, be sure to optimize your monitor height so the line of site between your eyes and the center the monitor suits your preferences for visual distance and comfortable viewing when your eye muscles are in a relaxed stated.
- **Tilt :** Adjust the tilt of your monitor to optimize the appearance of the screen content and to accommodate your preferred head and neck posture.
- **General location:** Position your monitor to avoid glare or reflections on the screen from overhead lighting or nearby windows.

The following are some other tips for comfortable viewing of your monitor:

- Use adequate lighting for the type of work you are performing.
- Use the monitor brightness, contrast, and image adjustment controls, if equipped, to optimize the image on your screen to meet your visual preferences.
- Keep your monitor screen clean so you can focus on the screen's contents.

Any concentrated and sustained visual activity can be tiring for your eyes. Be sure to periodically look away from your monitor screen and focus on a far object to allow your eye muscles to relax. If you have questions on eye fatigue or visual discomfort, consult a vision care specialist for advice.

#### Quick tips for healthy work habits

The following information is a summary of some important factors to consider to help you remain comfortable and productive while you use your computer.

- Good posture starts with equipment setup: The layout of your work area and the setup of your computer equipment have a large effect on your posture while using your computer. Be sure to optimize the position and orientation of your equipment by following the tips outlined in "Arranging your work area" on page 2-1 so you can maintain a comfortable and productive posture. Also, be sure to use the adjustment capabilities of your computer components and office furniture to best suit your preferences now and as your preferences change over time.
- Minor changes in posture can help avoid discomfort: The longer you sit and work you're your computer, the more important it is to observe your working posture. Avoid as summing any one posture for an extended period of time. Periodically make minor modifications in your posture to help deter any discomforts that might arise. Make use of any adjustments that your office furniture or equipment provide to accommodate changes in posture
- Short, periodic breaks help ensure healthy computing: Because computing is primarily a static activity, it is particularly important to take short breaks from your work. Periodically, stand up you're your work area, stretch, walk for a drink of water, or otherwise take a short break from using your computer. A short break from work gives your body a welcome change in posture and helps to ensure you remain comfortable and productive while you do work.

#### Accessibility information

Lenovo is committed to providing greater access to information and technology to people with disabilities. With assistive technologies, users can access information in the way most appropriate to their disability. Some of these technologies are already provided in your operating system; others can be purchased through vendors or accessed at:

http://www-03.ibm.com/research/accessibility/requests/accvpat.nsf/lenovo-bidx?OpenForm

#### Adjusting your monitor image

This section describes the user control features used to adjust your monitor image.

#### Using the direct access controls

The direct access controls can be used when the On Screen Display (OSD) is not displayed.

Note: The direct access controls are blue.

#### Table 2-1. Direct access controls

Icon	Control	Description
1 - 2	Input Change	Switches the video input source.
$\Box 0$	Image Setup	Activates automatic image adjustment.
÷.	Brightness	Direct access to Brightness adjustment.

#### Using the On-Screen Display (OSD) controls

The settings adjustable with the user controls are viewed through the On-Screen Display (OSD), as shown below.



To use the controls:

- 1. Press ← to open the main OSD menu.
- Use ← or → to move among the icons. Select an icon and press ← to access that function. If there is a sub-menu, you can move between options using ← or → , then press ← to select that function. Use ← or → to make adjustments. Press ← to save.
- 3. Press  $\bigcirc$  to move backwards through the sub-menus and exit from the OSD.
- 4. Press and hold ← for 10 seconds to lock the OSD. This will prevent accidental adjustments to the OSD. Press and hold ← for 10 seconds to unlock the OSD and allow adjustments to the OSD.
- Enables DDC/CI by default. Use OSD Exit Key, press and hold the buttons for 5 seconds to disable/enable DDC/CI function. The words "DDC/CI Disable/DDC/ CI/Enable" shows on the screen.

#### Table 2-2. OSD functions

OSD Icon on Main Menu	Submenu	Descirption	Adjus	ols and tments alog)	Controls and Adjustments (Digital)
₩ Brichtness /	☆ Brightness	Adjusts overall brightness		○ →	Same as Analog
Brightness/ Contrast	() Contrast	Adjusts difference between light and dark areas		•	
	<b>O</b> Horizontal Position	Moves the image left or right.	↓	⊠	Control Locked- not required for digital input
Image Position	© Vertical Position	Moves the image up or down		₩ →	
(0) Image Setup	<b>C</b> O Automatic	Automatically optimizes the i	mage.		
	€0 Manual	<ul> <li>Manually optimizes the imagesetup" on page 3-3</li> <li>Clock</li> <li>Phase</li> <li>Save</li> </ul>	e. See "Man	ual image	
Image Properties	Color	<ul> <li>Adjusts intensity of red, green, and blue.</li> <li>Preset mode <ul> <li>Reddish</li> <li>sRGB</li> <li>Neutral</li> <li>Bluish</li> </ul> </li> <li>Custom <ul> <li>Red: Increases or decreases the saturation of 'red' in the image.</li> </ul> </li> <li>Green: Increases or decreases the saturation of 'green' in the image.</li> <li>Blue: Increases or decreases the saturation of 'blue' in the image.</li> <li>Save: Saves the custom color choices.</li> </ul>		Same as Analog	
€ Scaling		<ul> <li>Off (Original AR) Same Aspect Ratio with in</li> <li>On (Full) Expand image size to full</li> </ul>			

#### Table 2-2. OSD functions

OSD Icon on Main Menu	Submenu	Descirption	Controls and Adjustments (Analog)	Controls and Adjustments (Digital)
	1 <b>3 2</b> Input Signal	This monitor can accept video signals through two different connectors. Most desktop computers use a D-SUB connector. Select digital among OSD Controls when you use DVI connector. - Selects D-SUB (Analog) - Selects DVI-Digital		Same as Analog
Options	(j) Information	Shows resolution, refresh rate, and product details. Note: This screen does not allow any changes to the settings.		Same as Analog
	O Menu Language	This section lists the languages supported by your monitor. Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer.		
	👀 Menu Position	Menu position adjusts menu location on the screen.		Same as Analog
	Default	Returns the menu position to the default settings.		
	Custom	<ul> <li>Horizontal: Changes the horizontal position of the OSD</li> <li>Vertical: Changes the vertical position of the OSD.</li> <li>Save</li> </ul>		
	(R) Factory Default	<ul> <li>Cancel</li> <li>Reset</li> <li>Reset monitor to original settings.</li> </ul>		
	ئ Accessibility	<ul> <li>Controls button and menu set preferences.</li> <li>③ Button repeat rate: Select ← or → to change.</li> <li>Off</li> <li>Default</li> <li>Slow</li> <li>④ Menu time out: Sets the I OSD will remain active after is pressed.</li> </ul>	ength of time the	
<b>C</b> Exit		Exit the main menu		Same as Analog

#### Selecting a supported display mode

The display mode the monitor uses is controlled by the computer. Therefore, refer to your computer documentation for details on how to change display modes.

The image size, position and shape might change when the display mode changes. This is normal and the image can be readjusted using automatic image setup and the image controls.

Unlike CRT monitors, which require a high refresh rate to minimize flicker, LCD or Flat Panel technology is inherently flicker-free.

Note: If your system has previously been used with a CRT monitor and is currently configured to a display mode outside the range of this monitor, you may need to re-attach the CRT monitor temporarily until you have re-configured the system; preferably to 1680x1050 at 60Hz, which is the Native Resolution Display mode.

The display modes shown below have been optimized at the factory.

Table 2-3.Factory set display modes			
Refersh rate			
50Hz			
70Hz			
60Hz,66Hz,72Hz,75Hz			
70Hz			
60Hz,72Hz,75Hz			
60Hz,70Hz,75Hz			
75Hz			
60Hz,72Hz,75Hz			
60Hz,75Hz			
60Hz			
60Hz,75Hz			

Table 2-3. Factory set display modes

#### Understanding power management

Power management is invoked when the computer recognizes that you have not you're your mouse or keyboard for a user-definable period. There are several states as described in the table below.

For optimal performance, switch off your monitor at the end of each working day, or whenever you expect to leave it unused for long periods during the day.

State	Power Indicator	Screen	Restoring Operation	Compliance
On	Steady green	Normal		
Standby/ Supsend	Steady amber	Blank	Press a key or move the mouse. There may be a slight delay reappears. Note: Standby also occurs if there is no image output to the monitor.	ENERGY STAR
Off	Off	Off	Press a key or move the mouse. There may be a slight delay before the image reappears.	ENERGY STAR

Table2-4.Power indicator

#### Image rotation

Before rotating the monitor, you should set-up your computer to rotate the image. Rotating the image may require special rotation software or you may find that your computer is preloaded with video graphic drivers that allows image rotation. Check the Graphic Properties setting on your computer to see if this feature is available.

Try these steps to check if image rotation is available on your computer.

- 1. Right-click on the desktop and click **Properties**.
- 2. Select the **Setting**s tab and click **Advanced**.
- 3. If you have ATI, select the **Rotation** tab and set the preferred rotation. If you have nVidia, click the **nVidia** tab, in the left-hand column select **NVRotate**, and then select the preferred rotation. If you have Intel, select the **Intel** graphics tab, click **Graphic Properties**, select the **Rotation** tab, and then set the preferred rotation.

Check with the manufacturer of your computer to see if graphic drivers with image rotation can be downloaded from their support website.

#### Caring for your monitor

Be sure to turn off the power before you perform any maintenance on the monitor.

#### Do not:

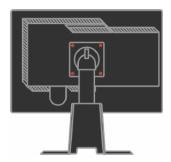
- Apply water or liquid directly to your monitor.
- Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- Use any cleaner which contains an anti-static solution or similar additives. This may harm the coating of the screen area.

#### Do:

- Lightly dampen a soft cloth with water and use this to gently wipe the covers and the screen.
- Remove grease or finger marks with a damp cloth and a little mild detergent.

#### Detaching the monitor stand

After placing the monitor face down on a clean surface or soft cloth, remove the four screws from the stand to remove it from the monitor.



### **Chapter 3. Reference information**

This section contains monitor specifications, instructions to manually install the monitor drover, troubleshooting information, and service information.

#### **Monitor specifications**

DimensionsHeight Depth Width378.78 mm (14.913 in) 241.07 mm (9.491 in) 510.30 mm (20.091 in)StandTilt rangeRange: 0°/+30°SwivelRange: -45°, +45°LiftRange: 110.0 mmPivotYes (clock wise 90 degree)VESA mountSupported100 mm (3.94 in)	
Stand     Fills     Fills     Fills     Fills     Fills       Stand     Tilt range     Range: 0°/+30°       Swivel     Range: -45°, +45°       Lift     Range: 110.0 mm       Pivot     Yes (clock wise 90 degree)	
Stand     Tilt range     Range: 0°/+30°       Swivel     Range: -45°, +45°       Lift     Range: 110.0 mm       Pivot     Yes (clock wise 90 degree)	
Stand     Swivel     Range: -45°, +45°       Lift     Range: 110.0 mm       Pivot     Yes (clock wise 90 degree)	
Swivel     Range: -45°, +45°       Lift     Range: 110.0 mm       Pivot     Yes (clock wise 90 degree)	
Pivot Yes (clock wise 90 degree)	
VESA mount Supported 100 mm (3.94 in)	
Viewable image size 433.44 mm (17.06 in)	
Image Maximum height 270.90 mm (10.67 in)	
Maximum width 433.44 mm (17.06 in)	
Pixel pitch 0.258 mm (0.010 in) (V)	
Supply voltage 100-240 VAC, 60/50±3 Hz	
Power input Max supply current 1.5 A	
Power consumption Normal operation $\leq 32 \text{ W}$	
Note: Power consumption figures Standby/Suspend < 2 W	
are for the monitor and the power supply combined. Off <1 W	
Video input (Analog)         Input signal         Analog Direct Drive, 75 ohm	0.7 V
Horizontal addressability 1680 pixels (max)	
Vertical addressability 1050 lines (max)	
Clock frequency 205 MHz	
Video input (Digital) Interface DVI	
Input signal VESA TMDS (Panel Link™)	
Horizontal addressability 1680 pixels (max)	
Vertical addressability 1050 lines (max)	
Clock frequency 165 MHz	
Communications VESA DDC CI	
Altitude Test Operation 8,000 ft	
Supported Display ModesHorizontal frequencyVAG: 30 kHz - 83 kHzDVI: 30 kHz - 75 kHz	
(VESA Standard modes between Vertical frequency 50 Hz - 75 Hz	
noted ranges) Native Resolution 1680 x 1050 at 60 Hz	
Temperature Operating 0° to 40°C (32° to 104° F)	
Storage -20° to 60°C (-4° to 140° F)	
Shipping -20° to 60°C (-4° to 140° F)	

Table 3-1. Monitor specifications for type-model 4422-Hx6

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Table 3-1. Monitor specifications for type-model 4422-Hx6(continued)

Humidity	Operating Storage Shipping	10% to 80% 5%° to 95% 5% to 95%
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#### Troubleshooting

If you have a problem setting up or using your monitor, you might be able to solve it yourself. Before calling your dealer or Lenovo, try the suggested actions that are appropriate to your problem.

Problem Possible cause Suggested action Reference The words" Out The system is set • If you are replacing an "Selecting a supported of Range" are to a display display mode" on page old monitor, reconnect shown on the mode which is 2-6 it and adjust the screen, and the not supported display mode to within power indicator by the monitor. the specified range for is flashing green. your new monitor. • If using a Windows system, restart the system in safe mode, then select a supported display mode for your computer. If these options do not work, contact the **Customer Support** Center. The image The video signal Be sure the signal cable is "Connecting and turning quality is cable is not firmly plugged into the on your monitor" on unacceptable. connected with system and monitor. page 1-4 the monitor or system completely. The color Select another color setting "Adjusting your monitor settings may be from the OSD menu. image" on page 2-3 incorrect. The automatic Perform automatic image "Adjusting your monitor image" on page 2-3 image setup setup. function was not performed. The power • The monitor's • Be sure the power cord "Connecting and turning indictator is not power switch is connected properly. on your monitor" on lit and there is no is not page 1-4 • Be sure the outlet has image. switched on. power. The power • Power on the monitor. cord is loose • Try using another or disconnected. power cord. There is no • Try using another power at the electrical outlet. outlet.

Table3-2.Troublesho	oting
---------------------	-------

Problem	Possible cause	Suggested action	Reference
Screen is blank and power indicator is steady amber or flashing green	The monitor is in Standby/Suspen d mode	<ul> <li>Press any key on the keyboard or move the mouse to restore operation.</li> <li>Check the Power Options settings on your computer.</li> </ul>	"Understanding power management" on page 2-6
The power indicator is green, but there is no image.	The video signal cable is loose or disconnected from the system or monitor.	Be sure the video cable is connected with the system properly.	"Connecting and turning on your monitor" on page 1-4
	The monitor brightness and contrast are at the lowest setting.	Adjust the brightness and contrast setting on the OSD menu.	"Adjusting your monitor image" on page 2-3
One or more of the pixels appear discolored	This is a characteristic of the LCD technology and is not an LCD defect.	If there are more than five pixels missing, contact the Customer Support Center.	Appendix A, "Service and Support," on page A-1
<ul> <li>Fuzzy lines in text or a blurry image.</li> <li>Horizontal or vertical lines through the</li> </ul>	<ul> <li>Image setup has not been optimized</li> <li>Your system Display Properties</li> </ul>	Adjust the resolution settings on your system to match the native resolution for this monitor: 1680x1050 at 60 Hz.	"Adjusting your monitor image" on page 2-3 "Manual image setup"
image. s	setting have not been optimized.	Perform automatic image setup. If automatic image setup does not help, perform manual image setup.	"Selecting a supported display mode" on page 2-6
		When working in the native resolution, you may find additional improvements by adjusting the Dots Per Inch (DPI) setting on your system.	See the Advanced section of your system's display properties.

Table 3-2. Troubleshooting(continued)

#### Manual image setup

If automatic image setup does not establish the image that you prefer, perform manual image setup.

Note: Have your monitor powered on for about 15 minutes, until the monitor warms up.

- 1. Press ← at the bottom of the monitor to open the OSD menu.
- 2. Use  $\leftarrow$  or  $\rightarrow$  to select  $\bigcirc$  and press  $\leftarrow$  to access.
- 3. Use  $\leftarrow$  or  $\rightarrow$  to select **Clock** and **Phase** adjustment.

- **Clock** (pixel frequency) adjusts the number of pixels scanned by one Horizontal sweep. If the frequency is not correct, the screen shows vertical Stripes and the picture does not have the correct width.
- **Phase** adjusts the phase of the pixel clock signal. With a wrong phase adjustment, the picture has horizontal disturbances in light picture.
- 4. When the image no longer looks distorted, save the Clock and Phase adjustments.
- 5. Press  $\bigcirc$  to leave the OSD menu.

#### Manually installing the monitor driver

Below are steps for manually installing the monitor driver in Microsoft Windows Vista, Microsoft Windows XP.

#### Installing the monitor driver in Windows Vista

To install the device driver in Microsoft® Windows Vista, do the following: Note: You must download files from the Lenovo Monitor CD to use the Plug and Play feature in Windows Vista.

- 1. Turn off the computer and all attached devices.
- 2. Ensure that the monitor is connected correctly.
- 3. Turn on the monitor and then the system unit. Allow your computer to start the Windows Vista operating system.
- 4. Open the **Display Properties** window by clicking Start, Control Panel and then double-clicking the **Hardware and Sound** icon.
- 5. Click the **Personalization** icon.
- 6. Click the **Display Settings** icon.
- 7. Click the Advanced Settings button.
- 8. Click the **Monitor** tab.
- 9. Click the **Properties** button.
- 10. Click the **Driver** tab.
- 11. Open the "**Update Driver Software-Generic PnP Monitor**" window by clicking on **Update Driver** and then click the "**Browse my computer for driver software**" button.
- 12. Select "Let me pick from a list of device drivers on my computer" and then click the Next button.

Insert the Lenovo Monitor CD into the CD drive and click the Have Disk button.
 Click on the Browse button and navigate to the following directory:
 X:\Monitor Drivers\Windows Vista (where X is the drive letter designator for the CD-ROM drive).

- 14. Select the "L2240pwD.inf " file and click the Open button. Click the OK button.
- 15. Select L2240pwD and click Next. The files will be copied from the CD to your hard disk drive.
- 16. Close all open windows and remove the CD.
- 17. Restart the computer.

The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

Note: On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1680 x 1050 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

#### Installing the monitor driver in Windows XP

To use the Plug and Play feature in Windows XP, files should be loaded from the *Reference and Driver CD*.

Note: This section must be completed before continuing with the Windows XP automatic image setup.

- 1. Turn off the computer and all attached devices
- 2. Ensure that the monitor is connected correctly.
- 3. Turn on the monitor and then the system unit. Allow the system to boot into Windows XP.
- Open the Display Properties window by clicking Start →Settings → Control Panel, and then double-clicking the Display icon.
- 5. Click the **Setting** tab.
- 6. Click the **Advanced** button.
- 7. Clink the **Monitor** tab.
- 8. Clink the **Properties** button.
- 9. Clink the **Drivers** tab.
- 10. Open the **Hardware Update Wizard** window by clicking on **Update Driver**, and then click **Next**.
- 11. Select Install from a list or Specific location (Advanced), and then click Next.
- Insert the Setup CD into the CD driver, then click the Have Disk button.
   Click on the **Browse** button and navigate to the following directory:
- 13. Click on the Browse button and navigate to the following director X:\Monitor Drivers\Windows XP (where X is the drive letter designator for the CD-ROM drive).
- 14. Select the "L2240pwD.inf" file and click the Open button. Click the OK button.
- 15. Choose L2240pwD and click OK. The files will be copied
- from the CD to your hard disk drive.
- 16. Close all open windows and remove the CD.
- 17. Restart the system. The system will automatically select the maximum refresh rate and corresponding Color Matching Profiles.

**Note:** On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1680x 1050 at a refresh rate of 60 Hz, or 640x480 at a refresh rate of 60Hz.

#### **Getting further help**

If you still can't solve your problem, please contact the Customer Support Center. For more information on contacting the Customer Support Center, please see Appendix A, "Service and Support," on page A-1.

#### Service information

#### **Product numbers**

The product number for your monitor is located on the side of the display bezel as shown below.



#### **Customer responsibilities**

The warranty does not apply to a product which has been damaged due to accident, misuse, abuse, improper installation, usage not in accordance with product specifications and instructions, natural or personal disaster, or unauthorized alterations, repairs or modifications.

The following are examples of misuse or abuse and not covered by warranty:

- Images burned on to the screen of a CRT monitor. Burned image is preventable by utilizing a moving screen saver or power management.
- Physical damage to covers, bezel, base and cables.
- Scratches or punctures on monitor screens.

#### Service parts

The following parts are for use by Lenovo service, or Lenovo authorized dealers, To support the customer warranty. Parts are for service use only. The table below shows information for model 4422-Hx6.

Table 3-3. List of service parts

FRU (Field Replaceable Unit) Part number	Description	color	Machine Type Model (MTM)
45J7651	L2240p Wide FRU Monitor Lenovo	Business Black	4422-HB6
45J8715	L2240p Wide FRU Monitor Lenovo	Silver Bezel	4422-HS6
45J7652	L2240p Wide FRU Signal cable (Analog)	Business Black	4422-H*6
45J7653	L2240p Wide FRU Signal cable (Digital)	Business Black	4422-H*6
45J7654	L2240p Wide FRU Stand	Business Black	4422-H*6

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#### Appendix A. Service and Support

The following information describes the technical support that is available for your Product, during the warranty period or throughout the life of the product. Refer to your Lenovo Statement of Limited Warranty for a fully explanation of Lenovo warranty terms.

#### **Online technical support**

Online technical support is available during the life of your product through the Lenovo Support Web site at http://www.lenovo.com/think/support.

During the warranty period, assistance for replacement or exchange of defective components is available. In addition, if your option is installed in a Lenovo computer, you might be entitled to service at your location. Your technical support representative can help you determine the best alternative.

#### **Telephone technical support**

Installation and configuration support through the Customer Support Center will be withdrawn or made available for a fee, at Lenovo's discretion, 90 days after the option has been withdrawn from marketing, Additional support offerings, including step-by-step installation assistance, are available for a nominal fee.

To assist the technical support representative, have available as much of the following information as possible:

- Option name
- Option number
- Proof of purchase
- Computer manufacturer, model, serial number, and manual
- Exact wording of the error message (if any)
- Description of the problem
- · Hardware and software configuration information for your system

If possible, be at your computer. Your technical support representative might want to walk you through the problem during the call.

#### Worldwide telephone list

Phone numbers are subject to change without notice. For the most current phone Numbers, go to http://www.lenovo.com/think /support and click **Support phone list.** 

Country or Region	Telephone Number	
Africa	Africa: +44 (0)1475-555-055 South Africa: +27-11-3028888 and 0800110756	
	Central Africa: Contact the nearest Lenovo service provider	
Argentina	0800-288-5366 (Spanish)	
Australia	131-426 (English)	
Austria	Up and running support: 01-24592-5901 Warranty service and support: 01-211-454-610 (German)	
Belgium	Up and running support: 02-210-9820 (Dutch) Up and running support: 02-210-9800 (French) Warranty service and support: 02-225-3611 (Dutch, French)	
Bolivia	0800-0189 (Spanish)	
Brazil	Sao Paulo region: (11) 3889-8986 Outside Sao Paulo region: 0800-701-4815 (Brazilian Portuguese)	
Canada	Toronto: 416-383-3344 Outside Toronto: 1-800-565-3344 (English, French)	
Chile	Toll Free: 1230-020-1130 (Spanish)	
China	800-810-1818 ext 5070 8610 84981188 ext 5070 (Mandarin)	
China (Hong Kong S.A.R.)	Home computer: 852-2825-7799 Commercial computer: 852-8205-0333 ThinkPad and WorkPad: 852-2825-6580 (Cantonese, English, Mandarin)	
Colombia	01-800-952-0466 (Spanish)	
Costa Rica	800-011-1029 (Spanish)	
Croatia	0800-0426	
Cyprus	+357-22-841100	
Czech Republic	+420-2-7213-1316	
Denmark	Up and running support: 4520-8200 Warranty service and support: 7010-5150 (Danish)	
Dominican Republic	Toll Free: 1-866-434-2080 (Spanish)	
Ecuador	1-800-426911 (Spanish)	
El Salvador	800-6264 (Spanish)	
Estonia	+386-61-1796-699	
Finland	Up and running support: 09-459-6960 Warranty service and support: +358-800-1-4260 (Finnish)	
France	Up and running support: 0238-557-450 Warranty service and support (hardware): 0810-631-213 Warranty service and support (software): 0810-631-020 (French)	
Germany	Up and running support: 07032-15-49201 Warranty service and support: 01805-25-35-58 (German)	
Greece	+30-210-680-1700	
Guatemala	1800-624-0051 (Spanish)	
Honduras	Tegucigalpa: 232-4222 San Pedro Sula: 552-2234 (Spanish)	
Hungary	+36-1-382-5720	
India	1800-425-6666 +91-80-2678-8970 (English)	
Indonesia	800-140-3555 (English) 62-21-251-2955 (Bahasa, Indonesian)	
Ireland	Up and running support: 01-815-9202 Warranty service and support: 01-881-1444 (English)	

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Country or Region	Telephone Number
Israel	Givat Shmuel Service Center: + 972-3-531-3900
	Haifa Service Center: +972-4-849-4608(Herbrew, English)
Italy	Up and running support: 02-7031-6101 Warranty service and support: +39-800-820094 (Italian)
Japan	Toll Free: 0120-20-5550 International: +81-46-266-4716
	The above numbers will be answered with a Japanese language voice prompt. For telephone support in English, please wait for the Japanese voice prompt to end, and an operator will answer. Please say "English support please." and your call will be transferred to an English speaking operator.
	Computer software: 0120-558-695 Overseas calls: +81-44-200-8666(Japanese)
Korea	1588-5801 (Korean)
Latvia	+386-61-1796-699
Lithuania	+386-61-1796-699
Luxembourg	+352-298-977-5063 (French)
Malaysia	1800-88-8558 (English, Bahasa, Melayu)
Malta	+356-23-4175
Mexico	01-800-123-1632 (Spanish)
Middle East	+44 (0) 1475-555-055
Netherlands	+31-20-514-5770 (Dutch)
New Zealand	0800-733-222 (English)
Nicaragua	001-800-220-1830 (Spanish)
Norway	Up and running support: 6681-1100 Warranty service and support: 8152-150 (Norwegian)
Panama	001-866-434-2080 (Toll Free) (Spanish)
Peru	0-800-00-966 (Spanish)
Philippines	1800-1888-1426 (English) 63-2-995-8420 (Filipino)
Poland	+48-22-878-6999
Portugal	+351-21-892-7147 (Portuguese)
Romania	+4-021-224-4015
Russian Federation	+7-495-940-2000 (Russian)
Singapore	1800-3172-888 (English, Bahasa, Melayu)
Slovakia	+421-2-4954-1217
Slovenia	+386-1-4796-699
Spain	91-714-7983 0901-100-000 (Spanish)
Sri Lanka	+94-11-2448-442 (English)
Sweden	Up and running support: 08-477-4420 Warranty service and support: 077-117-1040 (Swedish)
Switzerland	Up and running support: 058-333-0900 Warranty service and support: 0800-55-54-54 (German, French, Italian)
Taiwan	886-2-8723-9799 0800-000-700 (Mandarin)
Thailand	1-800-299-229 (Thai)

Appendix A. Service and Support A-3

Country or Region	Telephone Number
Turkey	00800-4463-2041 (Turkish)
United Kingdom	Up and running support: 01475-555-055 Warranty support: 08705-500-900 (English)
United States	1-800-426-7378 (English)
Uruguay	000-411-005-6649 (Spanish)
Venezuela	0-800-100-5722 (Spanish)
Vietnam	For northern area and Hanoi:84-4-843-6675 For southern area and Ho Chi Minh City: 84-8-829-5160 (English, Vietnamese)

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