



LS1922s Wide Flat Panel Monitor User's Guide



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Safety information

General Safety guidelines

For tips to help you use your computer safely, go to:
<http://www.lenovo.com/safety>

Before installing this product, read the Safety Information.

مصح، يجب قراءة دات السلامة

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 instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Před instalací tohoto produktu si přečtěte příručku bezpečnostních instrukcí.

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

Ennen kuin asennat tämän 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.

安裝本產品之前，請先閱讀「安全資訊」。

Chapter 1. Getting started

This User's Guide contains detailed information on your 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:

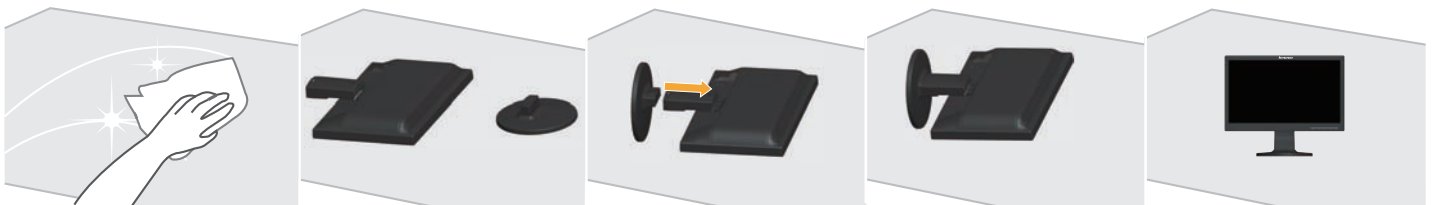
- *Setup Poster*
- *Monitor Safety, Troubleshooting, and Warranty Guide*
- *Reference and Driver CD*
- *Flat Panel Monitor*
- *Power Cord*
- *Analog Interface Cable - Attached to monitor*



Attaching the base and handling your monitor

To set up your monitor, please see the illustrations below.

Note: Do not touch the monitor within the screen area. The screen area is glass and can be damaged by rough handling or excessive pressure.

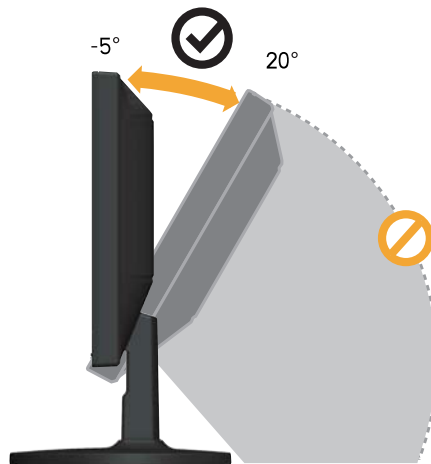


Product overview

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

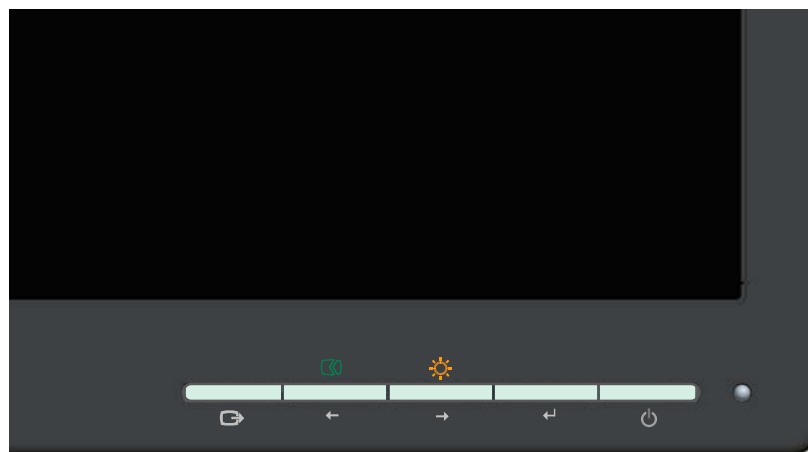
Types of adjustments

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



User controls

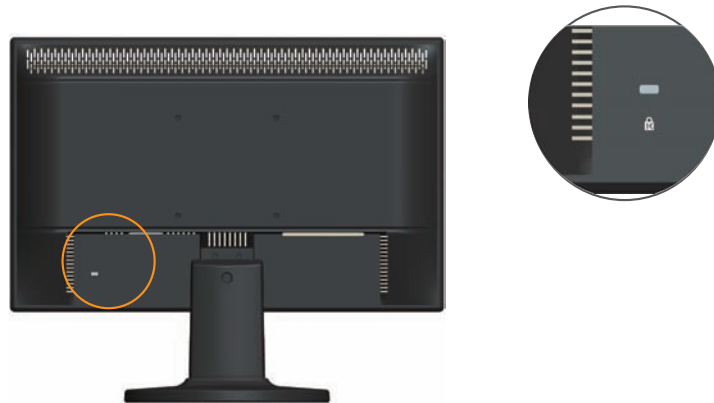
Your monitor has controls on the front which are used to adjust the display.



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 position). Please see the instructions that come with the cable lock to learn how to attach it.



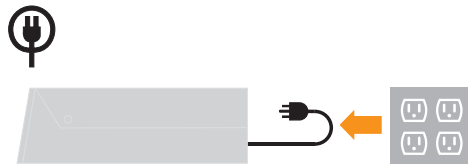
Setting up your monitor

This section provides information on how to set up your monitor.

Connecting and turning on your monitor

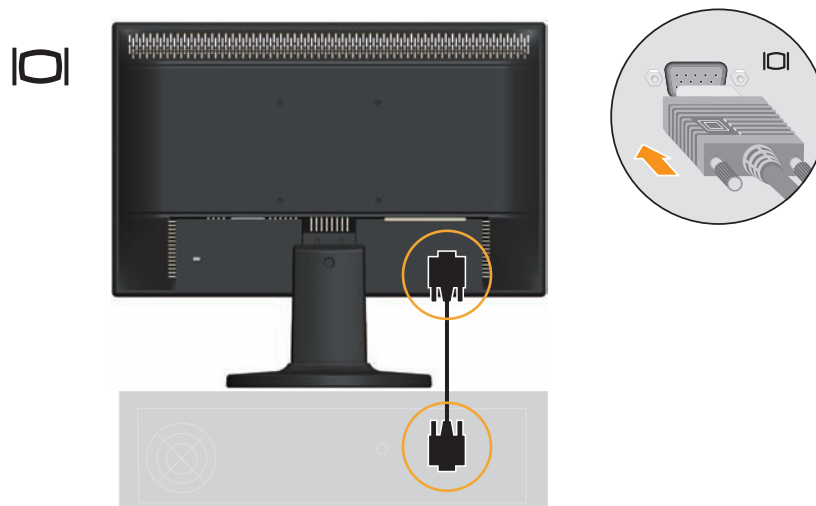
Note: Be sure to read the Safety information located in the Monitor Safety, Troubleshooting, and Warranty Guide before carrying out this procedure.

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

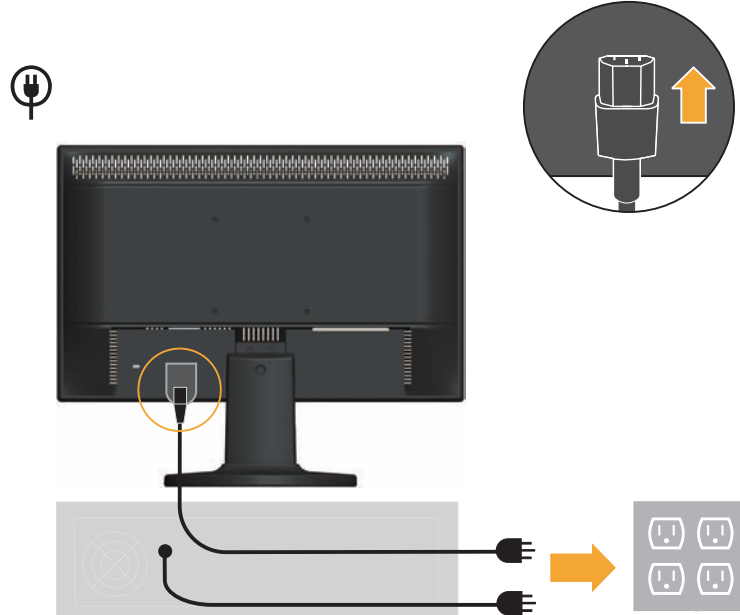


2. Connect the analog signal cable to the video port on the back of the computer.

Note: One end of the signal cable is already pre-attached to your monitor.



3. Plug the monitor power cord and the computer cord into grounded electrical outlets.



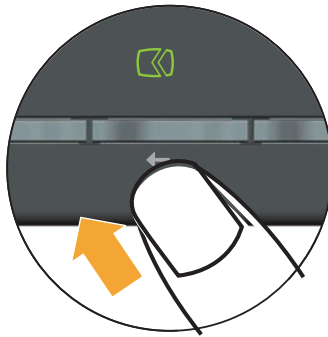
4. Power on the monitor and the computer.



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



6. To optimize your monitor image, 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 for normal operation.



Note: If automatic image setup does not establish the image that you prefer, perform manual image setup. See “Manual image setup” on page 3-4 .

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 your 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 state.
- **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.
- When monitor attach Tiny, Please ensure that the configuration/tabletop is stable and level.

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 with your computer, the more important it is to observe your working posture. Avoid assuming 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 from 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.



Adjusting your monitor image

This section describes the user control features for adjusting your monitor image.

Using the direct access controls

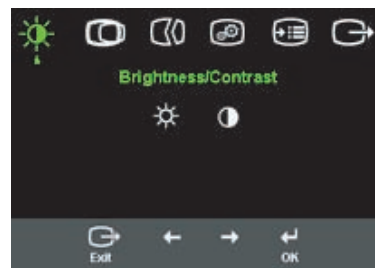
The direct access controls can be used when the On Screen Display (OSD) is not displayed.

Table 2-1. Direct access controls

Icon	Control	Description
	Image Setup	Activates automatic image adjustment.
	Brightness	Direct access to Brightness adjustment.

Using the On-Screen Display (OSD) controls

To adjust the settings, the user controls can be viewed through the OSD.



To use the controls:

1. Press **←** to open the main OSD menu.
2. 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 **↶** 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.
5. Enables DDC/CI by default. Use OSD Exit Key, Press and hold the **↶** buttons for 10 seconds to disable / enable DDC/CI function. The words " DDC/CI disable" shows on the screen.

Table 2-2. OSD functions





























OSD Icon on Main Menu	Submenu	Description	Controls and Adjustments	
 Brightness/ Contrast	 Brightness	Adjusts overall brightness	 ←	 →
	 Contrast	Adjusts difference between light and dark areas	 ←	 →
 Image Position	 Horizontal Position	Moves the image left or right	 ←	 →
	 Vertical Position	Moves the image up or down	 ←	 →
 Image Setup	 Automatic	Automatically optimizes the image		
	 Manual	Manually optimizes the image. See “Manual image setup” on page 3-4 <ul style="list-style-type: none"> • Clock • Phase • Save 		
 Image Properties	 Color	Adjusts intensity of red, green, and blue Preset mode <ul style="list-style-type: none"> • Neutral • sRGB • Reddish • Bluish Custom <ul style="list-style-type: none"> • Red: Increases or decreases the saturation of ‘red’ in the image • Green: Increases or decreases the saturation of ‘green’ in the image • Blue: Increases or decreases the saturation of ‘blue’ in the image • Save: Saves the custom color choices 		
	 Scaling	<ul style="list-style-type: none"> • Same Aspect Ratio with input signal • Expand image to full screen 		

Table 2-2. OSD functions

OSD Icon on Main Menu	Submenu	Description
 Options	 Information	Shows resolution, refresh rate, and product details Note: This screen does not allow any changes to the settings
	 Menu Language	Change language of menu Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer
	 Menu Position	Adjusts menu location Default: Default returns the menu position to the default settings Custom: <ul style="list-style-type: none"> • Horizontal: Changes the horizontal position of the OSD • Vertical: Changes the vertical position of the OSD • Save
	 Factory default	<ul style="list-style-type: none"> • Cancel • Reset Resets monitor to the original settings
	 Accessibility	Change button repeat rate and menu time-out setting  Button repeat rate: Select ← or → to change <ul style="list-style-type: none"> • Off • Default • Slow  Menu time out: Sets the length of time the OSD will remain active after the last time a button is pressed

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 1366 x 768 at 60 Hz, 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

Addressability	Refresh rate
640 x 350	70 Hz
640 x 480	60Hz , 72Hz , 75Hz
720 x 400	70Hz
800 x 600	60Hz , 72Hz , 75Hz
1024 x 768	60Hz , 70Hz , 75Hz
1280 x 720	60Hz
1280 x 768	60Hz
1360 x 768	60Hz
1366 x 768	60Hz

Understanding power management

Power management is invoked when the computer recognizes that you have not used 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.

Table 2-4. Power indicator

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

Caring for your monitor

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

Do not:

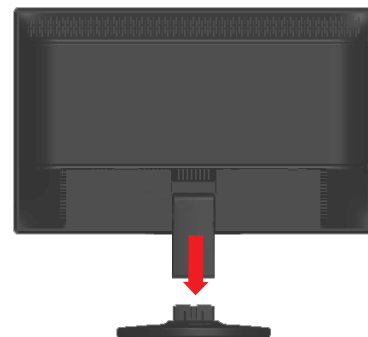
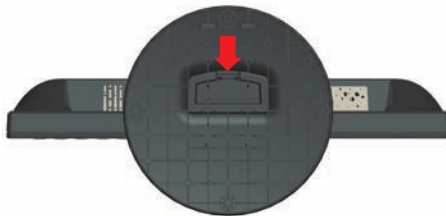
- Apply water or liquid directly to your monitor.
- Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- 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

To detach the base by pressing the button.



Chapter 3. Reference information

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

Monitor specifications

Table 3-1. Monitor specifications for type-model 60A7-AA*1-**

Dimensions	Height	370.1 mm (14.55 in)
	Depth	210.0 mm (8.25 in)
	Width	442.2 mm (17.38 in)
Panel	Size	18.5 in.
	Backlight	LED
	Aspect ratio	16:9
Stand	Tilt	Range: -5°, +20°
VESA mount	Supported	100 mm (3.94 in) Make sure the AC jack is located downside when using VESA Mount setup
Image	Viewable image size	470.1 mm (18.51 in)
	Maximum height	230.4 mm (9.07 in)
	Maximum width	409.8 mm (16.13 in)
	Pixel pitch	0.3 mm (0.01 in) (V)
Power input	Supply voltage	90-264VAC (100~240VAC+/-10%)
	Max supply current	1.5 A
Power consumption Note: Power consumption figures are for the monitor and the power supply combined	Normal operation	< 18 W
	Standby/Suspend	< 1W
	Off	< 0.5W at 100Vac & 240Vac
Video input (Analog)	Input signal	Analog Direct Drive, 75 ohm 0.7 V
	Horizontal addressability	1366 pixels (max)
	Vertical addressability	768 lines (max)
	Clock frequency	135 MHz

*Table 3-1. Monitor specifications for type-model 60A7-AA*1-***

Communications	VESA DDC	DDC-CI
Supported Display Modes (VESA Standard modes between noted ranges)	Horizontal frequency	30 kHz - 60 kHz
	Vertical frequency	50 Hz - 75 Hz
	Native Resolution	1366 x 768 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)
Humidity	Operating	8% to 80%
	Storage	5% to 95%
	Shipping	5% to 95%

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.

Table 3-2. Troubleshooting

Problem	Possible cause	Suggested action	Reference
The words "Out of Range" are shown on the screen, and the power indicator is flashing green	The system is set to a display mode which is not supported by the monitor	<p>If you are replacing an old monitor, reconnect it and adjust the display mode to within the specified range for your new monitor</p> <p>If using a Windows system, restart the system in safe mode, then select a supported display mode for your computer</p> <p>If these options do not work, contact the Support Center</p>	"Selecting a supported display mode" on page 2-6
The image quality is unacceptable	The video signal cable is not connected with the monitor or system completely	Be sure the signal cable is firmly plugged into the system and monitor	"Connecting and turning on your monitor" on page 1-3
	The color settings may be incorrect	Select another color setting from the OSD menu	"Adjusting your monitor image" on page 2-3
	The automatic image setup function was not performed	Perform automatic image setup	"Adjusting your monitor image" on page 2-3
The power indicator is not lit and there is no image	<ul style="list-style-type: none"> The monitor's power switch is not switched on The power cord is loose or disconnected There is no power at the outlet 	<ul style="list-style-type: none"> Be sure the power cord is connected properly Be sure the outlet has power Power on the monitor Try using another power cord Try using another electrical outlet 	"Connecting and turning on your monitor" on page 1-3
Screen is blank and power indicator is steady amber or flashing green	The monitor is in Standby/Suspend mode	<ul style="list-style-type: none"> Press any key on the keyboard or move the mouse to restore operation Check the Power Options settings on your computer 	"Understanding power management" on page 2-7

Table 3-2. Troubleshooting

Problem	Possible cause	Suggested action	Reference
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 1-3
	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 Support Center	Appendix A, "Service and Support," on page A-1
<ul style="list-style-type: none"> Fuzzy lines in text or a blurry image Horizontal or vertical lines through the image 	<ul style="list-style-type: none"> Image setup has not been optimized Your system Display Properties setting have not been optimized 	Adjust the resolution settings on your system to match the native resolution for this monitor: 1366 x 768 at 60 Hz	"Adjusting your monitor image" on page 2-3 "Manual image setup"
		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

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 **←** or **→** to select **☐** and press **↵** to access.
3. Use **←** or **→** 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 **⏪** 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 7. Please see the Install Driver section of the *Reference and Driver CD* for automatic installation.

Installing the monitor driver in Windows 7

To use the Plug and Play feature Microsoft Windows 7, do the following:

Note: You must download file from the Lenovo Monitor CD to use the Plug and Play feature in Windows 7.

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 7 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**".
13. Click the **Have Disk** button. Click on the **Browse** button and navigate to the following directory:
X:\Monitor Drivers\Windows 7
(where X is the drive letter designator for the CD-ROM drive).
14. Select the "**lenls1922wa.inf**" file and click the **Open** button. Click the **OK** button.
15. Select **LEN LS1922wA** 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 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 1366 x 768 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

Installing the monitor driver in Windows Vista

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

Note: This section must be completed before continuing with the Windows Vista 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 Vista.
4. Open the **Display Properties** window by clicking **Start** → **Settings** → **Control Panel**, and then double-clicking the **Display** icon.
5. Click the **Settings** tab.
6. Click the **Advanced** button.
7. Click the **Monitor** tab.
8. Click the **Properties** button.
9. Click 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**.
12. Select "**Don't search. I will choose the driver to install**" option, and then click **Next**.
13. 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 "**lenls1922wa.inf**" file and click the **Open** button. Click the **OK** button.
15. Select **LEN LS1922wA** 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 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 1366 x 768 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

Service information

Product numbers

The product number for your monitor is located on the rear cover 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 onto 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 60A7-AAR1-WW.

Table 3-3. List of service parts

FRU(Field Replaceable unit) Part number	DESCRIPTION	Machine Type model (MTM)	COLOR
03X7951	LS1922s Wide-FRU Monitor	60A7-AAR1-WW	Black
30R5139	LS1922s Wide-Analog cable	60A7-AAR1-WW	Black
03X7952	LS1922s Wide-FRU Stand	60A7-AAR1-WW	Black

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 your product. Refer to the Lenovo Limited Warranty for a full explanation of Lenovo warranty terms.

Registering your option

Register to receive product service and support updates, as well as free and discounted computer accessories and content. Go to:
<http://www.lenovo.com/register>

Online technical support

Online technical support is available during the lifetime of a product at:
<http://www.lenovo.com/support>

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

Telephone technical support

Installation and configuration support through the Customer Support Center will be available until 90 days after the option has been withdrawn from marketing. After that time, the support is cancelled, or made available for a fee, at Lenovo's discretion. Additional support is also available for a nominal fee.

Before contacting a Lenovo technical support representative, please have the following information available: option name and number, proof of purchase, computer manufacturer, model, serial number and manual, the exact wording of any error message, description of the problem, and the hardware and software configuration information for your system.

Your technical support representative might want to walk you through the problem while you are at your computer during the call.

Telephone numbers are subject to change without notice. The most up-to-date telephone list for Lenovo Support is always available at:
<http://www.lenovo.com/support/phone>

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 Business Partner
Argentina	0800-666-0011 (Spanish)
Australia	131-426 (English)
Austria	Warranty service and support: 01-211-454-610 (German)
Belgium	Warranty service and support: 02-225-3611 (Dutch, French)
Bolivia	0800-10-0189 (Spanish)

Country or Region	Telephone Number
Brazil	Sao Paulo region: (11) 3889-8986 Outside Sao Paulo region: 0800-701-4815 (Brazilian Portuguese)
Brunei	801-1041 (English, Bahasa Melayu)
Canada	Toronto: 416-383-3344 Outside Toronto: 1-800-565-3344 (English, French)
Chile	Toll Free: 188-800-442-488 800-361-213 (Spanish)
China	86-10-58851110 800-990-8888 (Mandarin)
China (Hong Kong S.A.R.)	ThinkCentre® Commercial PC: 8205-0333 Multimedia Home PC: 800-938-228 (Cantonese, English, Mandarin)
China (Macau S.A.R.)	ThinkCentre Commercial PC: 795-9892 Multimedia Home PC: 0800-336 (Cantonese, English, Mandarin)
Colombia	1-800-912-3021 (Spanish)
Costa Rica	0-800-011-1029 (Spanish)
Croatia	0800-0426
Cyprus	+357-22-841100
Czech Republic	800-353-637
Denmark	Warranty service and support: 7010-5150 (Danish)
Dominican Republic	1-866-434-2080 (Spanish)
Ecuador	1-800-426911 (Spanish)
Egypt	+202-35362525
El Salvador	800-6264 (Spanish)
Estonia	+372 6776793 +372 66 00 800
Finland	Warranty service and support: +358-800-1-4260 (Finnish)
France	Warranty service and support (hardware): 0810-631-213 Warranty service and support (software): 0810-631-020 (French)
Germany	Warranty service and support: 01805-00-46-18 (German)
Greece	+30-210-680-1700
Guatemala	1800-624-0051 (Spanish)
Honduras	Tegucigalpa: 232-4222 San Pedro Sula: 552-2234 (Spanish)
Hungary	+36-1-382-5716 +36-1-382-5720 (English, Hungarian)
India	1800-425-2666 +91-80-2535-9182 (English)

Country or Region	Telephone Number
Indonesia	021 5238 823 Local number only: 001-803-606-282 DID (Direct Inward Dialing): +603 8315 6859 (English, Bahasa Indonesia)
Ireland	Warranty service and support: 01-881-1444 (English)
Israel	Givat Shmuel Service Center: +972-3-531-3900 (Hebrew, English)
Italy	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. PC software: 0120-558-695 Overseas calls: +81-44-200-8666 (Japanese)
Korea	1588-6782 (Korean)
Latvia	+371 7070360
Lithuania	+370 5 278 66 00
Luxembourg	+352-360-385-343 (French)
Malaysia	Local number only: 1800-88-1889 DID: +603 8315 6855 (English, Bahasa Melayu)
Malta	+35621445566
Mexico	001-866-434-2080 (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	Warranty service and support: 8152-1550 (Norwegian)
Panama	Lenovo Customer Support Center: 001-866-434-2080 (Toll Free) 206-6047 (Spanish)
Peru	0-800-50-866 (Spanish)
Philippines	1800-1601-0033 (English, Filipino)
Poland	+48-22-878-6999 (Polski)
Portugal	+351-21-892-7046 (Portuguese)
Romania	+4-021-224-4015
Russia	Moscow: +7-(495)-258-6300 Toll Free: +8-800-200-6300 (Russian)
Singapore	Local number only: 800-6011-343 DID: +603 8315 6859 (English)
Slovakia	+421-2-4954-5555

Country or Region	Telephone Number
Slovenia	+386-1-200-50-60 (Slovenian)
Spain	91-714-7983 0901-100-000 (Spanish)
Sri Lanka	+9411 2493547 +9411 2493548 (English)
Sweden	Warranty service and support: 077-117-1040 (Swedish)
Switzerland	Warranty service and support: 0800-55-54-54 (German, French, Italian)
Taiwan	886-2-8723-9799 0800-000-700 (Mandarin)
Thailand	Local number only: 1-800-060-066 66 2273 4088 DID: +603 8315 6857 (Thai, English)
Turkey	0212 336 03 66, 00800 448 825 165 (Turkish)
United Kingdom	Standard warranty support: 08705-500-900 (English)
United States	1-800-426-7378 (English)
Uruguay	000-411-005-6649 (Spanish)
Venezuela	0-800-100-2011 (Spanish)
Vietnam	For Northern Area and Hanoi City: 844 3 946 2000 or 844 3 942 6457 For Southern Area and Ho Chi Minh City: 848 3 829 5160 or 844 3 942 6457 (Vietnamese, English)

Appendix B. Notices

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Any performance data contained herein was determined in a controlled environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Recycling information

Lenovo encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. Lenovo offers a variety of programs and services to assist equipment owners in recycling their IT products. For information on recycling Lenovo products, go to: <http://www.lenovo.com/lenovo/environment/recycling>

環境配慮に関して

本機器またはモニターの回収リサイクルについて

企業のお客様が、本機器が使用済みとなり廃棄される場合は、資源有効利用促進法の規定により、産業廃棄物として、地域を管轄する県知事あるいは、政令市長の許可を持った産業廃棄物処理業者に適正処理を委託する必要があります。また、弊社では資源有効利用促進法に基づき使用済みパソコンの回収および再利用・再資源化を行う「PC回収リサイクル・サービス」を提供しています。詳細は、<http://www.ibm.com/jp/pc/service/recycle/pcrecycle/> をご参照ください。

また、同法により、家庭で使用済みとなったパソコンのメーカー等による回収再資源化が2003年10月1日よりスタートしました。詳細は、<http://www.ibm.com/jp/pc/service/recycle/pcrecycle/> をご参照ください。

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Collecting and recycling a disused Lenovo computer or monitor

If you are a company employee and need to dispose of a Lenovo computer or monitor that is the property of the company, you must do so in accordance with the Law for Promotion of Effective Utilization of Resources. Computers and monitors are categorized as industrial waste and should be properly disposed of by an industrial waste disposal contractor certified by a local government. In accordance with the Law for Promotion of Effective Utilization of Resources, Lenovo Japan provides, through its PC Collecting and Recycling Services, for the collecting, reuse, and recycling of disused computers and monitors. For details, visit the Lenovo Web site at www.ibm.com/jp/pc/service/recycle/pcrecycle/. Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, visit the Lenovo Web site at www.ibm.com/jp/pc/service/recycle/personal/.

Disposing of Lenovo computer components

Some Lenovo computer products sold in Japan may have components that contain heavy metals or other environmental sensitive substances. To properly dispose of disused components, such as a printed circuit board or drive, use the methods described above for collecting and recycling a disused computer or monitor.

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