

ThinkVision

T2224zD Flat Panel Monitor User's Guide



Product Number

60CB-MAR6-WW



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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.

مج، 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 de 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.

សូមអានព័ត៌មានសុវត្ថិភាព មុនពេលចាប់ផ្តើមបញ្ចូលកម្មវិធី

安裝本產品之前，請先閱讀「安全諮詢」。

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 disable 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 labelled 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 0.75mm² or H05VVH2-F2 3G 0.75mm²) shall be used. An alternative flexible cord is 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 does 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.
- While using VESA mount application, the AC Inlet must face to down side. Do not face any other position.

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 Lenovo 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 use 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.

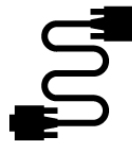
Chapter 1 Getting started

This User's Guide contains detailed information on the ThinkVision® T2224zD 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:

- Information Flyer
- Flat Panel Monitor
- Power Cord
- Analog signal Cable
- USB 3.0 Cable



Note: To attach a VESA mount, please see "Detaching the monitor stand" on page 2-8.

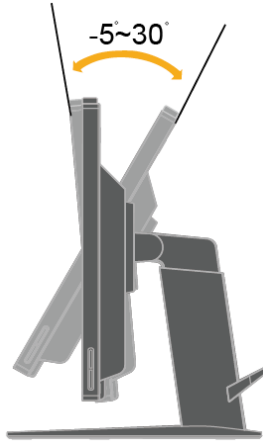
Product overview

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

Types of adjustments

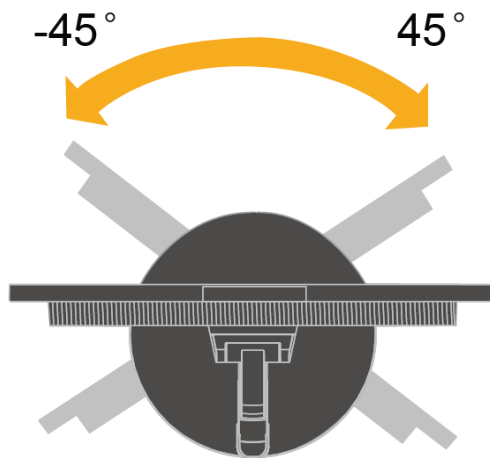
Tilt

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



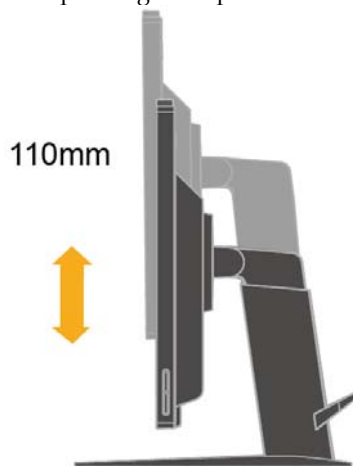
Swivel

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, you can adjust the height of the monitor.



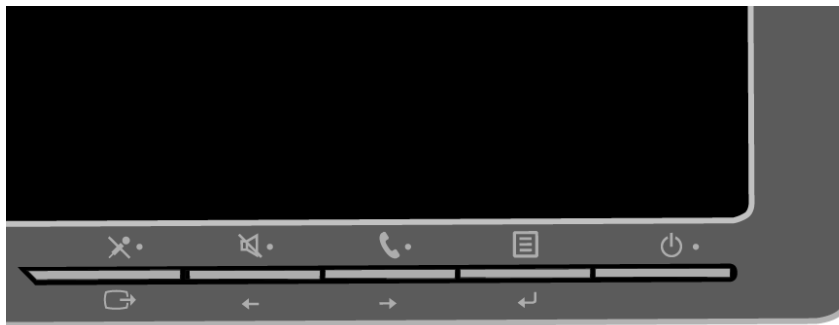
Monitor Pivot



- Adjust height to the top position before rotation the monitor.
- Rotate clockwise until the monitor stops at 90°.

User controls

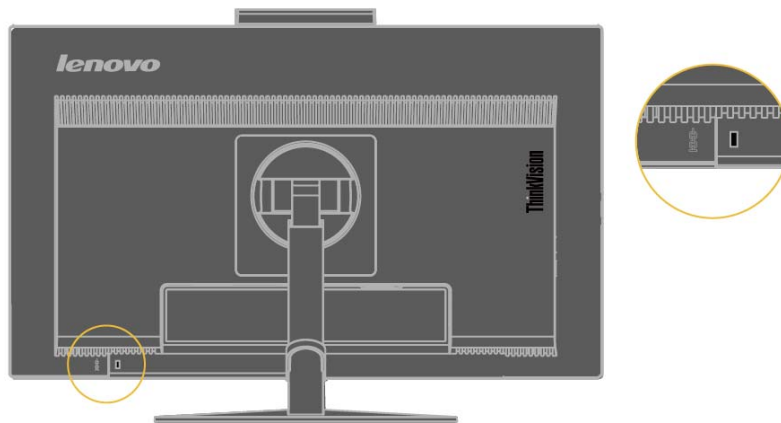
Your monitor has controls on the front which are used to adjust the display.



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. Please follow the instructions that came with the cable lock to attach it.



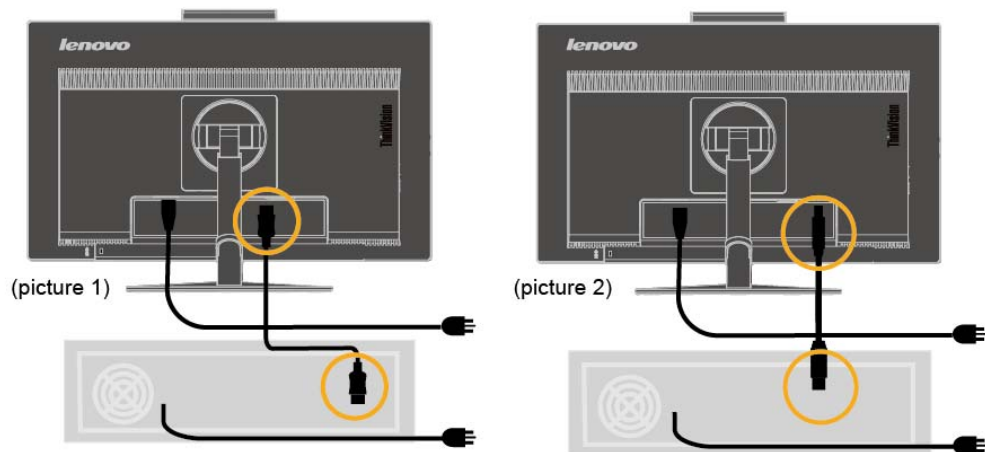
Web-Camera

Your monitor has embedded FHD Web-Camera Module; you can use it on living meeting and other net communication.

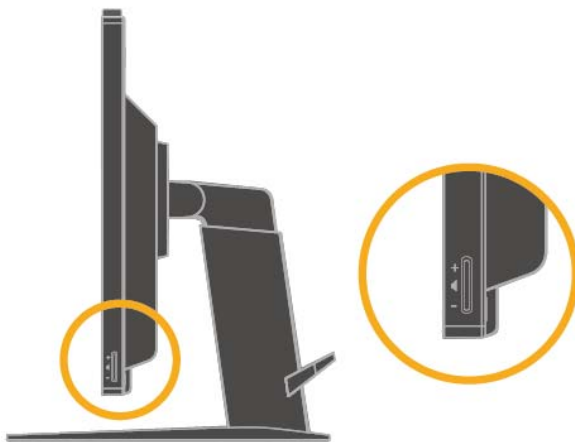


Speaker

Your monitor has embedded a pair of speakers with 3W, and it can support DP audio output and USB audio output. The USB cable need plug in when you use USB audio channel (**picture2**). DP audio output doesn't need USB cable but DP cable (**picture 1**).



You can push side volume control key to adjust sound of speaker.



Setting up your monitor

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

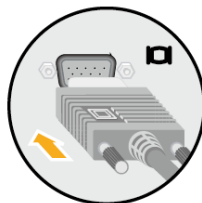
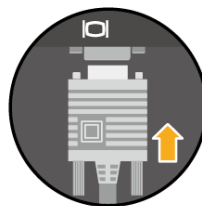
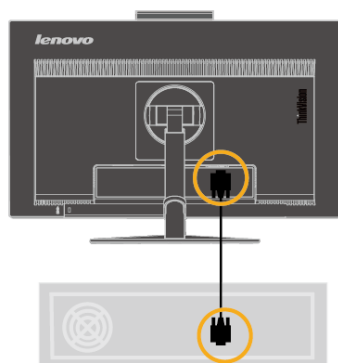
Connecting and turning on your monitor

Note: Be sure to read the Safety Information located in the Flyer before carrying out this procedure.

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

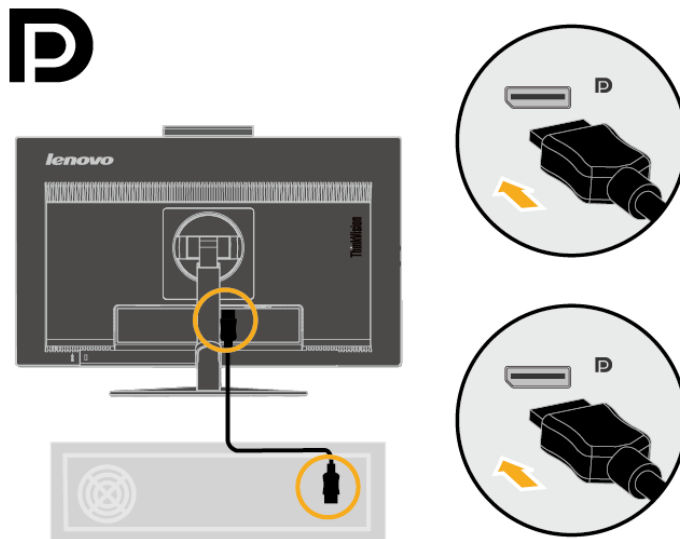


2. Connect the analog signal cable to the D-SUB connector of the monitor and the other end on the back of the computer.

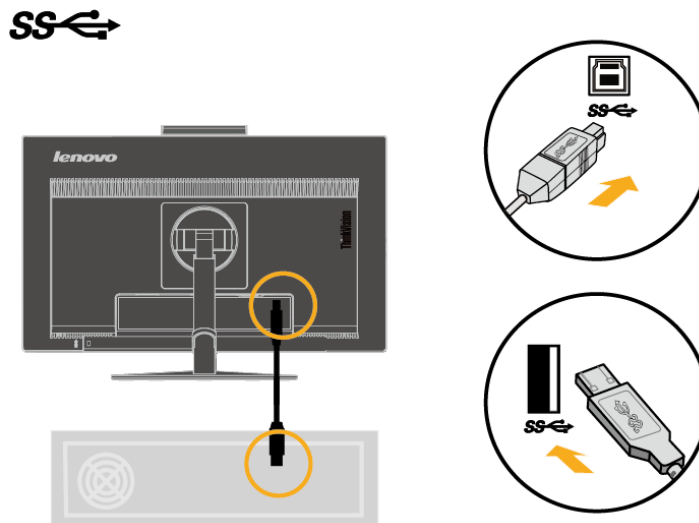


3. Connect one end of the DP cable to the DP connector on the back of the computer, and the other end to the DP connector on the monitor. Lenovo recommends that customers who require to use the DisplayPort input on their monitor purchase the "Lenovo DisplayPort to DisplayPort cable 0A36537".

For more information, go to the following:
www.lenovo.com/support/monitoraccessories



4. Connect one end of the USB 3.0 cable to the USB connector on the back of the computer, and the other end to the upstream USB connector on the monitor.



Note: In some circumstances when using USB 3.0 devices (hard drives or flash drives) and 2.4GHz USB wireless devices (for example wireless mouse, keyboard, or headphone) at the same time, USB 3.0 devices radio frequency interference may impact on 2.4GHz USB wireless devices, result in a drop in throughput on the wireless transmission.

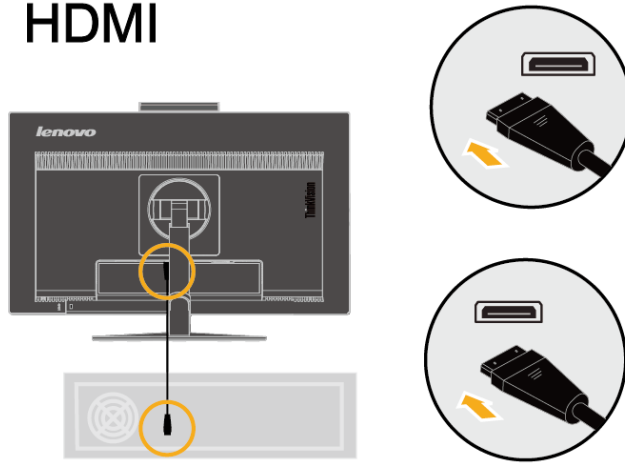
User may feel delayed response to mouse or keyboard inputs, missing keyboard characters or mouse commands, decreased operating distance between the 2.4 GHz USB wireless device and its receiver. Please refer to the following ways which helps to reduce this radio frequency interference.

1. Wireless dongle was moved away from the USB 3.0 device as possible as you can.
2. If the USB wireless receiver and USB 3.0 device have to be connected at the same side, Position your USB wireless receiver as close as possible to your wireless peripheral device (mouse, keyboard, headphones, etc.) Or use a standard USB-extender cable or Hub to position your USB wireless receiver as far away as possible from your USB 3.0 port.

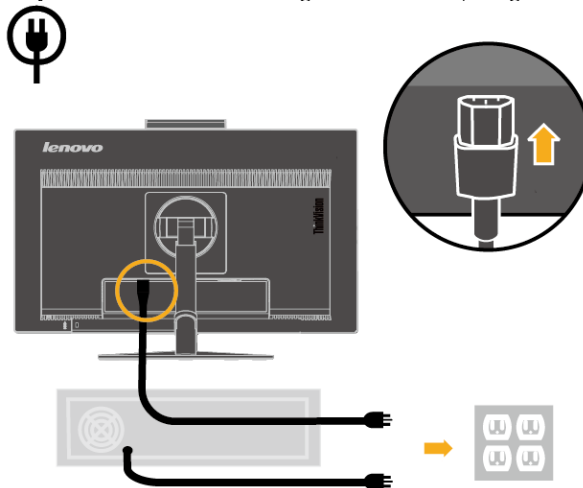
5. Connect one end of the HDMI cable to the HDMI connector on the back of the computer, and the other end to the HDMI connector on the monitor. Lenovo recommends that customers who require to use the HDMI input on their monitor purchase the “Lenovo HDMI to HDMI cableOB47070”.

For more information, go to the following:
www.lenovo.com/support/monitoraccessories

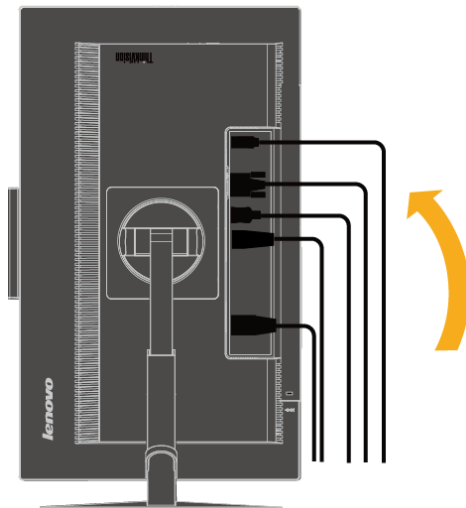
HDMI



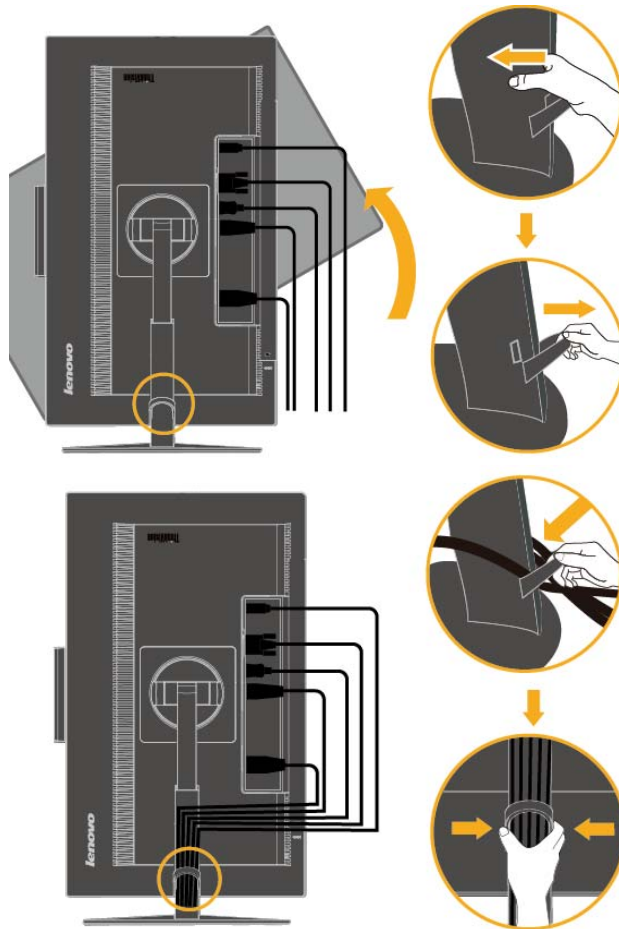
6. Plug the monitor power cord and the computer cord into grounded electrical outlets.
Note: A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 0.75mm² or H05VVH2-F2 3G 0.75mm²) shall be used. Alternative a flexible cord be of synthetic rubber according to IEC 60245 (designation H05RR-F 3G 0.75mm²) shall be used.



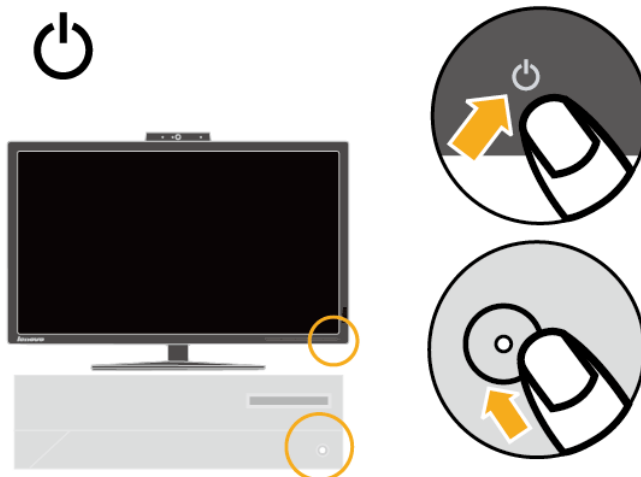
7. Rotate the head of the monitor into portrait view.



8. Assembled Line Cleaner as shown below.



9. Power on the monitor and the computer.



10. To install the monitor driver, you must download it from Lenovo website, (<http://support.lenovo.com/us/en/documents/T2224zD>) and follow the instructions on page 3-4.

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 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.

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 centre of 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.

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 in front of 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 in front of 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:

https://lenovo.ssbartgroup.com/lenovo/request_vpat.php





Adjusting your monitor image

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

Using the direct access controls

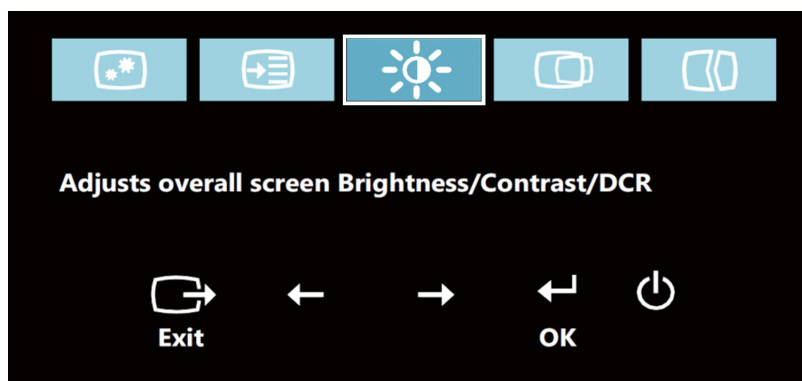
The direct access controls can be used when the On Screen Display (OSD) is not displayed.

Table 2-1 Direct access controls

Icon	Control	Description
	Microphone Mute	Use the Microphone Mute button to mute microphone.
	Mute	Use the Mute button to mute audio.
	Hook	Use the Hook button to accept an incoming invite notification.
	Main menu	Open main OSD menu

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.
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/DDC/CI/Enable" 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	← →
 Brightness/Contrast	Contrast	Adjusts difference between light and dark areas.	← →
 Brightness/Contrast	DCR	Enable dynamic contrast ratio.	On Off
 Image Position	Horizontal Position Vertical Position	Moves the image left or right. Moves the image up or Down.	← →
 Image Setup	Automatic Manual	Automatically optimizes the image. Manually optimizes the image. See "Manual image setup" on page 3-3 <ul style="list-style-type: none">• Clock• Phase	
 Image Properties	Input Signal	Analog DISPLAYPORT HDMI	Select Analog Signal Select DP Signal Select HDMI Signal
 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 colour choices.	
 Image Properties	Scaling	<ul style="list-style-type: none">• Full Screen• Original AR	
 Image Properties	Over Drive	Response time enhancement <ul style="list-style-type: none">• On• Off	

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. This section lists the languages supported by your monitor.
 Options	Language	Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer.
 Options	Menu Position Default Custom	Menu position adjusts menu location on the screen. Returns the menu position to the default settings. <ul style="list-style-type: none"> • Horizontal: Changes the horizontal position of the OSD • Vertical: Changes the vertical position of the OSD.
 Options	Factory Default	<ul style="list-style-type: none"> • Cancel • Reset Resets monitor to the original factory settings. Controls button and menu settings for accessibility preferences.
 Options	Accessibility	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.
 Options	DP Select	Select DP1.1 or DP1.2: <ul style="list-style-type: none"> • DP1.1 • DP1.2 Controls button and menu settings for DP transmit speed.

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 1920x1080 @ 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

Addressability	Refresh rate
PAL VGA	50Hz
640x350	70Hz
640x480	60Hz,72Hz,75Hz
700x570	50Hz
720x400	70Hz
800x600	56Hz,60Hz,72Hz,75Hz
832x624	75Hz
1024x768	60Hz,70Hz,75Hz
1152x864	75Hz
1280x1024	60Hz,70Hz,75Hz
1366x768	60Hz
1440x900	60Hz,R60Hz
1600x900	60Hz,75Hz
1680x1050	60Hz,R60Hz
1920x1080	60Hz

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 Settings 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 NV Rotate, 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.

Audio description

If your Operation System(OS) is XP, for the XP limitation, 2 phenomena will be happened:
A) The USB audio is recognized as a speaker phone by PC, Speaker volume control icon will be disappeared when you plug in the USB cable.
B) Because PC doesn't set the USB audio as the prior audio output automatically when you first plug in the USB cable, and the monitor will not audio output.

You must setup it manually once, please refer to below step:

- 1> Open your "control panel" from the start.
- 2> Then open the "sounds and audio devices".
- 3> Select the "audio" tab.
- 4> Select T2224zD as default audio output.
- 5> Apply it.

Understanding power management

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

Table2-4.Power indicator

State	Power Indicator	Screen	Restoring Operation	Compliance
On	Steady green	Normal		
Standby/ Suspend	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 power key to switch on There may be a slight delay before the image reappears.	ENERGY STAR

Caring for your monitor

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

Do not:

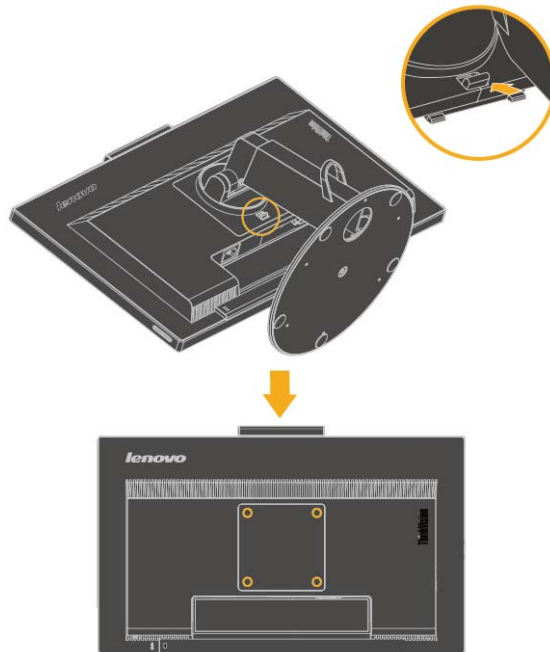
- Apply water or liquid directly to your monitor.
- Use solvents or abrasives.
- Use flammable cleaning materials to clean your monitor or any other electrical equipment.
- Touch the screen area of your monitor with sharp or abrasive items. This type of contact may cause permanent damage to your screen.
- 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 and soft surface, push the hook of the stand and lift the stand up to remove it from the monitor .

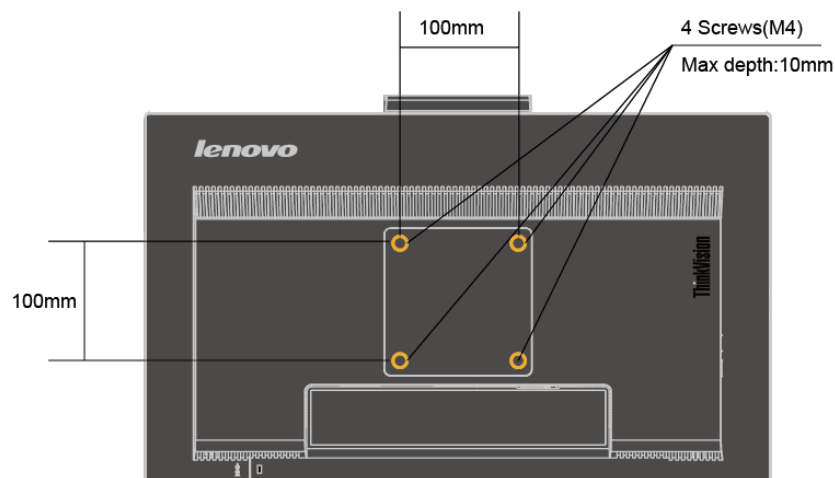


Wall Mounting (Optional)

Refer to the instructions that come with the VESA compatible base mounting kit.

1. Place the monitor face down on a non-abrasive surface on stable flat table.
2. Remove the stand.
3. Attach the mounting bracket from the wall mounting kit to the monitor.
4. Mount the monitor on the wall by following the instructions that come with the base mounting kit.

NOTE: For use only with UL(expand UL) Listed Wall Mount Bracket with minimum weight/load bearing capacity of 6.00 kg. In order to fulfil TCO Certification for this wall mounting option, shielded power cable is mandatory to be used.



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 60CB-MAR6-WW

Dimensions	Height Depth With	356.79 mm (14.05 in.) 244.01 mm (9.61 in.) 512.86 mm (20.19 in.)
Stand	Tilt range Swivel Lift Pivot	Range: -5°/+30° Range: -45°/+45° Range: 110mm Yes (clock wise 90 degree)
VESA mount	Supported	100 mm (3.94 in.)
Image	Viewable image size Maximum height Maximum width Pixel pitch	546.1 mm (21.5 in.) 267.79 mm (10.54 in.) 476.06 mm (18.74 in.) 0.248mm (0.0098 in.) (V)
Power input	Supply voltage Max supply current	100-240 VAC, 60/50 Hz 1.5A
Power consumption Note: Power consumption figures are for the monitor and the power supply combined.	Max Consumption Typical Consumption Standby/Suspend Off	<45W 17.6W <0.5W <0.3W
Video input (Analog)	Input signal Horizontal addressability Vertical addressability Clock frequency	Analog Direct Drive, 75 ohm 0.7 V 1920 pixels (max) 1080 lines (max) 205 MHz
Video input (Digital)	Input signal Horizontal addressability Vertical addressability Clock frequency	DP 1920 pixels (max) 1080 lines (max) 10.8Gpbs(max)
Video input (Digital)	Input signal Horizontal addressability Vertical addressability Clock frequency	HDMI 1920 pixels (max) 1080 lines (max) 10.8Gpbs (max)
Communications	VESA DDC	CI
Altitude Test	Operation	16404 ft
Supported Display Modes (VESA Standard modes between noted ranges)	Horizontal frequency Vertical frequency Native Resolution	30 kHz - 81 kHz 50 Hz - 75 Hz 1920 x 1080 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	10% 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.

Table3-2. 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.	<ul style="list-style-type: none"> • If you are replacing an old monitor, reconnect it and adjust the display mode to within the specified range for 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 Centre. 	"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 1-5
The image quality is unacceptable.	The color settings may be incorrect.	Select another colour setting from the OSD menu.	"Adjusting your monitor image" on page 2-3
The image quality is unacceptable.	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 1-5

Table3-2. Troubleshooting(continued)

Problem	Possible cause	Suggested action	Reference
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
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 1-5
The power indicator is green, but there is no image.	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 discoloured	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 Centre.	Appendix A, "Service and Support" on page A-2
<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: 1920 x 1080 at 60 Hz.	"Adjusting your monitor image" on page 2-3
<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. 	Perform automatic image setup. If automatic image setup does not help, perform manual image setup.	"Selecting a supported display mode" on page 2-6
<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. 	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.
The image is not acceptable when switching to dual mode	It has not set the optimum resolution for each mode	<ul style="list-style-type: none"> Use ThinkVision Duo software to optimize the dual screen operation Adjust graphic card resolution manually 	"Using the direct access controls" on page 2-3

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 \downarrow at the bottom of the monitor to open the OSD menu.
2. Use \leftarrow or \rightarrow to select \square and press \downarrow to access.
3. Use \leftarrow or \rightarrow to select Manual and press \downarrow to access.
4. 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 \rightarrow to leave the OSD menu.

Manually installing the monitor driver

Below are steps for manually installing the monitor driver in Microsoft Windows 8.1, Microsoft Windows 8, Microsoft Windows 7.

Installing the monitor driver in Windows 8.1

To install the device driver in Microsoft® Windows 8.1, do the following:

Note: You must download the driver of your operation system from the Lenovo website (<http://support.lenovo.com/us/en/documents/T2224zD>)

1. Turn off the computer and all attached devices.
2. Ensure that the monitor is connected correctly.
3. Turn on the monitor and then turn on the computer. Allow your computer to boot into Windows 8.1 operating system.
4. On the Desktop, move mouse to low-right corner of screen, choose Setting, double click Control Panel, and then double click the icon of Hardware and Sound, and then clicking Display.
5. Click the Change the display settings tab.
6. Click the **Advanced Settings** icon.
7. Click the **Monitor** tab.
8. Click the **Properties** button.
9. Click the **Driver** tab.
10. Click **Update Driver**, then click Browse the computer to find the driver program.
11. Select **Pick from the list of device driver program** on the computer.
12. Click the **Have Disk** button. Click the **Browse** button and navigate to the directory that you put your download drivers in.
13. Select the “**T2224zD.inf**” file and click the Open button. Click the OK button.
14. Select **Lenovo T2224zD** and click **Next**. The files will be copied from the directory to your hard disk drive.
15. Close all open windows.
16. Restart the system. The system will automatically select the maximum refresh rate and corresponding Colour Matching Profiles.

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 1920 x 1080 at a refresh rate of 60 Hz, or 640 x 480 at refresh rate of 60 Hz.

Installing the monitor driver in Windows 8

To use the Plug and Play feature in Microsoft Windows 8, do the following:

Note: You must download the driver of your operation system from the Lenovo website (<http://support.lenovo.com/us/en/documents/T2224zD>)

1. Turn off the computer and all attached devices.
2. Ensure that the monitor is connected correctly.
3. Turn on the monitor and then turn on the computer. Allow your computer to boot into Windows 8 operating system.
4. On the Desktop, move mouse to low-right corner of screen, choose **Setting**, double click Control Panel, then double click the icon of **Hardware and Sound**, and then clicking **Display**.
5. Click the Change the display settings tab.
6. Click the **Advanced Settings** icon.
7. Click the **Monitor** tab.
8. Click the **Properties** button.
9. Click the **Driver** tab.
10. Click **Update Driver**, then click Browse the computer to find the driver program.
11. Select **Pick from the list of device driver** program on the computer.
12. Click the **Have Disk** button. Click the **Browse** button and navigate to the directory that you put your download drivers in.
13. Select the " **T2224zD.inf** "file and click the Open button. Click the OK button.
14. Select **Lenovo T2224zD** and click **Next**. The files will be copied from the directory to your hard disk drive.
15. Close all open windows.
16. Restart the system. The system will automatically select the maximum refresh rate and corresponding Colour Matching Profiles.

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 1920 x 1080 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

Installing the monitor driver in Windows 7

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

Note: You must download the driver of your operation system from the Lenovo website (<http://support.lenovo.com/us/en/documents/T2224zD>)

1. Turn off the computer and all attached devices.
2. Ensure that the monitor is connected correctly.
3. Turn on the monitor and then turn on the computer. Allow your computer to boot into Windows 7 operating system.
4. Open the **Display Properties** window by clicking **Start, Control Panel** and then click the **Hardware and Sound** icon.
5. Click the **Display** icon.
6. Click the **Adjust Resolution** button.
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 the **Browse** button and navigate to the directory that you put your download drivers in.
14. Select the "T2224zD.inf" file and click the **Open** button. Click the **OK** button.
15. Select **Lenovo T2224zD** and click **Next**. The files will be copied from the directory to your hard disk drive.
16. Close all open windows.
17. Restart the computer.

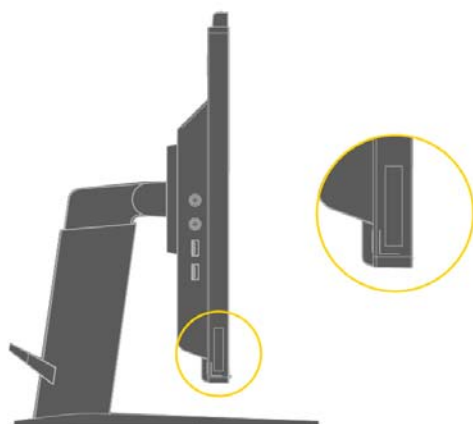
The system will automatically select the maximum refresh rate and corresponding color matching profiles.

Note: On LCD monitors, unlike CRTs, a faster refresh rate does not improve display quality. Lenovo recommends using either 1920 x 1080 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 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.

Getting further help

If you still can't solve your problem, please contact the Customer Support Centre.

For more information on contacting the Customer Support Centre, please see Appendix A, "Service and Support" on page A-2.

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 60CB-MAR6-WW.

Table 3-3. List of service parts

FRU (Field Replaceable Unit) Part number	Description	colour	Machine Type Model (MTM)
00PC012	T2224z - 21.5" FRU Monitor (HDMI)	Raven Black	60CB-MAR6-WW
00PC009	T2224z - Analog cable (1.8m, RoHS)	Raven Black	60CB-MAR6-WW
00PC010	T2224z - USB 3.0 cable (1.8m, RoHS)	Raven Black	60CB-MAR6-WW
00PC011	T2224z - FRU Stand and Base	Raven Black	60CB-MAR6-WW

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.

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/support>

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/support>

Product replacement assistance or exchange of defective components also is available 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/support/phone>

Country or Region	Telephone Number
Argentina	0800-666-0011 (Spanish, English)
Australia	1-800-041-267 (English)
Austria	0810-100-654 (local phone) (German)
Belgium	Warranty service and support: 02-339-36-11 (Dutch, French)
Bolivia	0800-10-0189 (Spanish)
Brazil	Calls made from within the Sao Paulo region: 11-3889-8986 Calls made from outside the Sao Paulo region: 0800-701-4815 (Portuguese)
Brunei Darussalam	800-1111 (English)
Canada	1-800-565-3344 (English, French)
Chile	800-361-213 (Spanish)
China	Technical Support Line: 400-100-6000 (Mandarin)
China (Hong Kong S.A.R.)	(852) 3516-8977 (Cantonese, English, Mandarin)
China (Macau S.A.R.)	0800-807 / (852) 3071-3559 (Cantonese, English, Mandarin)
Colombia	1-800-912-3021 (Spanish)
Costa Rica	0-800-011-1029(Spanish)
Croatia	385-1-3033-120(Croatian)
Cyprus	800-92537(Greek)
Czech Republic	800-353-637(Czech)
Denmark	Warranty service and support: 7010-5150 (Danish)
Dominican Republic	1-866-434-2080(Spanish)
Ecuador	1-800-426911 (OPCION 4) (Spanish)
Egypt	Primary: 0800-0000-850 Secondary:0800-0000-744 (Arabic,English)
El Salvador	800-6264 (Spanish)
Estonia	372-66-0-800 (Estonian, Russian, English)
Finland	Warranty service and support: +358-800-1-4260(Finnish)
France	Warranty service and support (hardware): 0810-631-213(French)
Germany	Warranty service and support: 0800-500-4618 (toll-free)(German)
Greece	Lenovo Business Partner (Greek)
Guatemala	Dial 999-9190, wait for operator, and request to reach 877-404-9661 (Spanish)
Honduras	Dial 800-0123 (Spanish)
Hungary	+36-13-825-716 (English, Hungarian)
India	Primary: 1800-419-4666 (Tata) Secondary: 1800-3000-8465 (Reliance) Email: commercialts@lenovo.com (English and Hindi)
Indonesia	1-803-442-425 62 213-002-1090 (Standard Charges Apply) (English, Bahasa Indonesia)
Ireland	Warranty service and support: 01-881-1444 (English)
Israel	Givat Shmuel Service and Center: +972-3-531-3900 (Hebrew, English)
Italy	Warranty service and support: +39-800-820094 (Italian)
Japan	0120-000-817 (Japanese, English)
Kazakhstan	77-273-231-427(Standard charges Apply) (Russian , English)
Korea	080-513-0880 (Collect Call) 02-3483-2829 (Toll Call) (Korean)
Latvia	371-6707-360(Latvian, Russian, English)

Country or Region	Telephone Number
Lithuania	370 5278 6602 (Italian, Russian, English)
Luxembourg	ThinkServer and ThinkStation: 352-360-385-343 ThinkCentre and ThinkPad: 352-360-385-222 (French)
Malaysia	1-800-88-0013 03-7724-8023 (Standard Charges Apply) (English)
Malta	356-21-445-566 (English, Italian, Maltese Arabic)
Mexico	001-866-434-2080(Spanish)
Netherlands	020-513-3939 (Dutch)
New Zealand	0508-770-506 (English)
Nicaragua	001-800-220-2282 (Spanish)
Norway	8152-1550(Norwegian)
Panama	Lenovo Customer Support Center: 001-866-434(Toll-Free)(Spanish)
Peru	0-800-50-866 (OPCION 2) (Spanish)
Philippines	1-800-8908-6454 (GLOBE subscribers) 1-800-1441-0719 (PLDT subscribers) (Tagalog, English)
Poland	Laptops and tablets branded with logo Think: 48-22-273-9777 ThinkStation and ThinkServer: 48-22-878-6999 (Polish, English)
Portugal	808-225-115 (Standard Charges Apply) (Portuguese)
Romania	4-021-224-4015 (Romanian)
Russia	+7-499-705-6204 +7-495-240-8558 (Standard Charges Apply)(Russian)
Singapore	1-800-415-5529 6818-5315 (Standard Charges Apply) (English, Mandarin, Bahasa Malaysia)
Slovakia	ThinkStation and ThinkServer: 421-2-4954-5555
Slovenia	386-1-2005-60 (Slovenian)
Spain	34-917-147-833(Spanish)
Sri Lanka	+9477-7357-123 (Sumathi Information systems) (English)
Sweden	Warranty service and support: 077-117-1040 (Swedish)
Switzerland	Warranty service and support: 0800-55-54-54 (German, French, Italian)
Taiwan	0800-000-702 (Mandarin)
Thailand	001-800-4415-734 (+662) 787-3067 (Standard Charges Apply) (Thai, English)
Turkey	444-04-26 (Turkish)
United Kingdom	Standard warranty support: 03705-500-900 (local rate) 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	120-11072 (Toll Free) 84-8-4458-1042 (Standard Charges Apply) (Vietnamese, English)

Appendix B. Notices

Lenovo may not offer the products, services, or features discussed in this document in all countries. Consult your local Lenovo representative for information on the products and services currently available in your area. Any reference to a Lenovo product, program, or service is not intended to state or imply that only that Lenovo product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any Lenovo intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any other product, program, or service.

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Lenovo encourage 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。

重金属を含む内部部品の廃棄処理について

本機器のプリント基板等には微量の重金属（鉛など）が使用されています。使用後は適切な処理を行うため、上記「本機器またはモニターの回収リサイクルについて」に従って廃棄してください。

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 in 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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