

ThinkVision

ThinkVision P32pz-30 User Guide Machine Types: 63E5



Product numbers

C23315UP0 63E5-GAR2-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.

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

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

Läs säkerhetsinformationen innan du installerar den här produkten.

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Les sikkerhetsinformasjonen (Safety Information) før du installerer dette produktet.

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

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

Pred inštaláciou tohto zariadenia si peèítaje Bezpeènostné predpisy.

Pred namestitvijo tega proizvoda preberite Varnostne informacije.

Ennen kuin asennat t m n tuotteen, lue turvaohjeet kohdasta Safety Information.

Před instalací tohoto produktu si pročtěte Bezpečnostní informace.

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

安裝本產品之前,請先閱讀「安全資訊」。

يجب قراءة إرشادات السلامة قبل تشغيل هذا المنتج

Læs sikkerhedsforskrifterne, før du installerer dette produkt.

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.

Antes de instalar este producto lea la información de seguridad.

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

Перед установкой продукта прочтите инструкции по технике безопасности.

Lees voordat u dit product installeert eerst de veiligheidsvoorschriften.



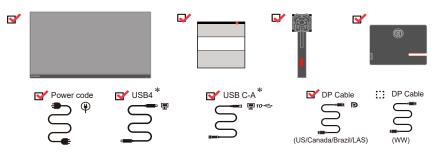
Chapter 1. Getting started

This User's Guide contains detailed information on the your Flat Panel Monitor. For a quick overview, please see the Setup Poster that was shipped with your monitor. P32pz-30 supports Lenovo Accessories and Display Manager*-ThinkColour. *Formerly Lenovo Display Control Center.

Shipping contents

The product package should include the following items:

- Flat Panel Monitor
- Information Flyer
- Stand
- Base
- Power Cord
- USB4 Cable
- USB C-A Cable
- DisplayPort Cable (For US/Canada/Brazil/LAS)



Note: This equipment is not suitable for use in locations where children are likely to be present, avoid hurting your child when machine falling down.

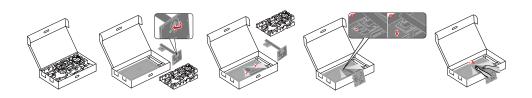
*: Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: USB C to A: 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2;

USB4: 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2; 20 Gbit/s for USB4 Gen 2*2; 40 Gbit/s for USB4 Gen 3*2.

Notice for use

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.



- 1. Take out the Top cushion and accessories.
- 2. Mounting the stand to monitor's recess.
- 3. Insert the base towards the stand and tighten the thumbscrew.
- 4. Stand up the monitor with both hands carefully.

Note: To install a VESA mount, please see "Wall Mounting (Optional)" on page 2-14.

Product overview

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

Types of adjustments

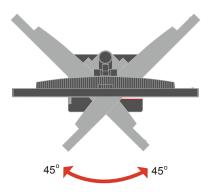
Tilt

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



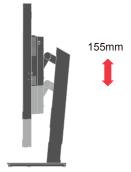
Swivel

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



Height adjustment

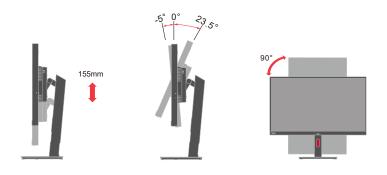
For height adjustment, user needs to press down or lift up the monitor.



Monitor pivot

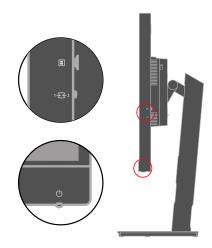
- Adjust the screen position before rotating the monitor screen. (Make sure that the monitor screen ascent to its highest point, and it inclines backward at 23.5°.)

- then rotate clockwise until the monitor stops at 90°.



Monitor controls

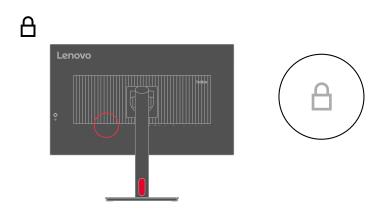
Your monitor has controls on the front and back which are used to adjust the display.



For information on how to utilize these keypad 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.



Setting up your monitor

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

Connecting and turning on your monitor

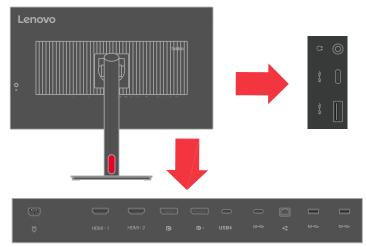
Note: Be sure to read the Safety information on page iii before carrying out this procedure.

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



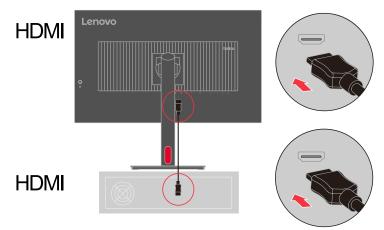
Note: The type of plug & Socket shown here are for illustration only.

2. Connect the cables according to below icon indication.



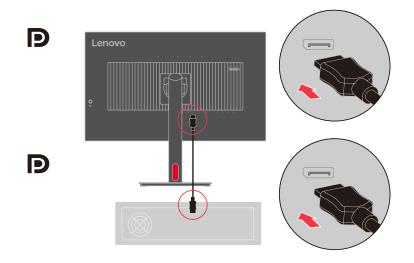
3. For computer in HDMI connecting.

Note: Lenovo recommends that customers who require to use the HDMI input on their monitor purchase the "Lenovo HDMI to HDMI cable OB47070" www.lenovo.com/support/monitoraccessories.

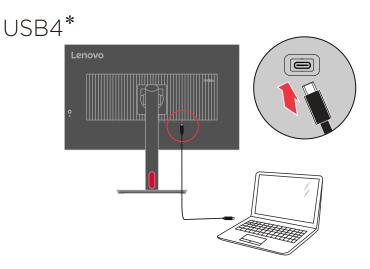


4. For computer in DisplayPort connecting.

Note: Lenovo recommends that customers who require to use the DP Cable on their monitor purchase the "Lenovo DisplayPort to DisplayPort Cable 0A36537" www.lenovo.com/support/monitoraccessories.



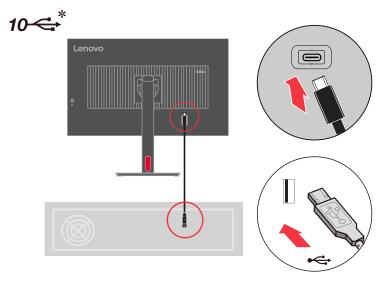
5. For computer in USB4 connecting.



WARNING: The Lenovo 32 4K Monitor-P32pz-30 supports USB Type-C Power Delivery 3.1 (USB4) specification and can provide a maximum output of up to 140 W. For safety consideration, this USB Type-C port must be connected to the approved products with the inbox USB Type-C cable. For the list of the approved products, refer the products compatible with USB Type-C Power Delivery 3.1 (Extended Power Range 140W) Tech sheet at https://support.lenovo.com/solutions/ACC500306

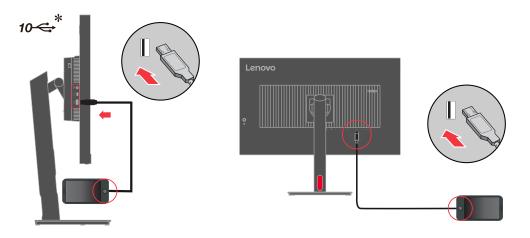
If there are any * tag, you can consult the comments on page 1-1.

6. For computer in USB type C-A connecting.



If there are any * tag, you can consult the comments on page 1-1.

 Connect one end of the USB cable to the USB downstream terminal of the monitor, and connect the other end of the USB cable to an appropriate USB port on your device.
 Note: The USB downstream port does not provide power while the monitor switch is off.



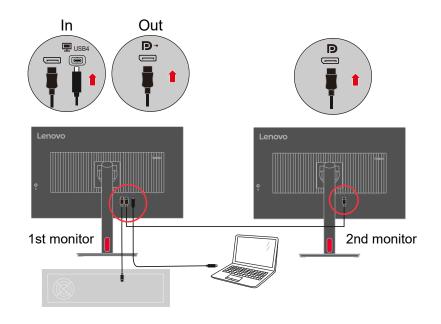
If there are any * tag, you can consult the comments on page 1-1.

8. Connect one end of the DP cable to the DP input on the back of another monitor, and the other end to the DP output connector (for daisy chain) on the monitor.

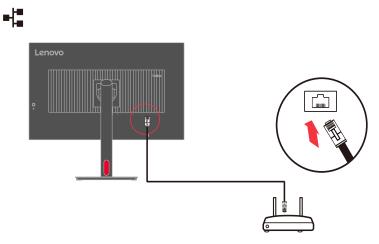
Note : Lenovo recommends that customers who require to use the Display Port input on their monitor purchase the "Lenovo Display Port to Display Port Cable 0A36537"

For more information, go to one of the following:

www.lenovo.com/support/monitor accessories.

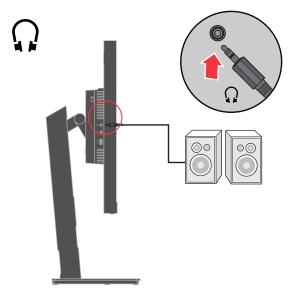


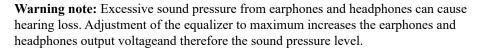
9. Connect one end of the network cable connector to the Ethernet interface of the monitor and the other end to the router.



10. Connect the speaker's audio cable and audio jack of monitor to transfer audio source from Display Port, HDMI, USB4, USB C-A.

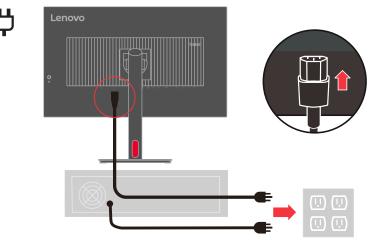
Note: The audio output in Display Port, HDMI, USB4, USB C-A modes.





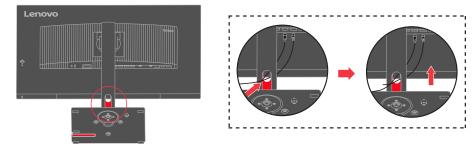
11. Insert the power cord into the monitor, then plug the monitor power cord and the computer cord into grounded electrical outlets.

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.

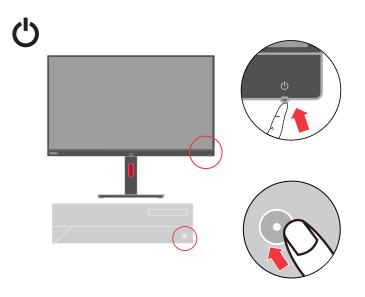


Note: The type of plug & Socket shown here are for illustration only.

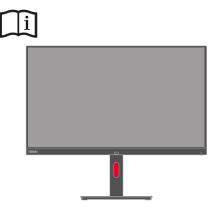
12. Connect the cables with cable clip.



13. Power on the monitor and the computer.



14. When you install the monitor driver, download the driver that corresponds to your monitor model from the Lenovo website https://pcsupport.lenovo.com/solutions/p32pz_30. Refer to the "Manually installing the monitor driver" on page 3-6" section to install the driver.

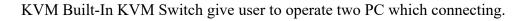


Registering your option

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 product 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.

KVM



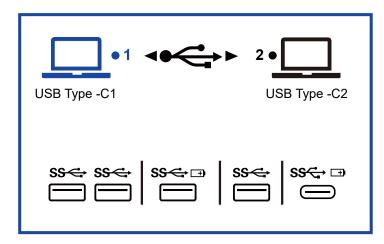


How to enable KVM

The shortcut key of KVM on right direction of five-way key.

The USB devices will be switched to another upstream port after OSD disappears.

Note: KVM operation may cause USB device to be interrupted.



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 your monitor

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

- Recommended viewing distance between the eye and the monitor screen is 1.5x the diagonal of the screen. Solutions in meeting this required distance in cramped office situations include pulling desk away from wall or divider to make room for monitor, using flat panel or compact displays placing the monitor in the desk corner, or placing the keyboard in an adjustable drawer to create a deeper working surface.
- **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.

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 as suming 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.

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.ssbbartgroup.com/lenovo/request_vpat.php

Adjusting your monitor image

This section describes the control features 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.

	Icon	Control	Description
1	\triangleleft	Left	Return to the previous menu page or exit from the previous function.
2	\bigtriangleup	UP	It is a shortcut key for directly opening brightness adjustment bar while there is no any OSD on the screen. Press to move to last item on menu. Press to Increase current value on adjustment bar.
3	1 2	Input Source	Press to switch the video input source while there is no any OSD on the screen. Press and hold for 10 seconds to Enable/Disable the "DDC/CI".
4	\bigtriangledown	Down	It is a shortcut key for directly opening ECO mode menu while there is no any OSD on the screen. Press to move to next item on menu. Press to decrease current value on adjustment bar.
5	Ξ	Menu	To access OSD menu. Press to confirm selection. Press and hold for 10 seconds will lock menu/unlock menu.
6		Right	Press to enter next level on main menu or sub menu. It is a shortcut key for directly switching KVM setting while there is no any OSD on the screen.

Table 2-1. Direct access controls

Using the On-Screen Display (OSD) controls

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

ThinkVision。 P32pz-30			×
Monitor Control Quik settings Quik settings Port setting Advanced settings Smart Feature	Brightness Contrast Dynamic contrast Over Drive Color mode	75 Off Off DCI-P3	く た く た く た く く た く
Input Signal: USB-C Resol	ution: 3840 x 2160 R	efresh Rate: 60Hz U	SB C Max. Power Delivery : 140W

To use the controls:

- 1. Press 🗏 to open the main OSD menu.
- Use △ or ▽ to move among the icons. Select an icon and press ↓ to access that function. If there is a sub-menu, you can move between options using △ or ▽, then press ↓ to select that function. Use △ or ▽ to make adjustments then press ↓ to save.
- 3. Press rightarrow to move backwards through the sub-menus and exit from the OSD.
- 4. The ENERGY STAR option resets all user settings to default values so that the monitor can meet the requirements of Energy Star.



Energy Star is an energy saving program for consumer electronics led by the U.S. government.It was launched in 1992 by EPA and DOE to reduce energy consumption and greenhouse gas emissions. Energy Star logo is a symbol of energy conservation and environmental protection. It improves the concept of energy efficiency of consumers and manufacturers, and effectively guides the market.

The regulation of Energy Star improves energy efficiency and reduces air pollution by using more energy-efficient equipment in homes, offices and factories. One way to achieve this goal is to use management to reduce energy consumption when products are not in use.

The default settings for monitors conform to Energy Star certification. Any changes by users for more features and functionalities may increase power consumption, which will exceed the limitation of Energy Star's standard. If the user changes the options related to energy efficiency when using, such as brightness, color mode, etc., select All Reset Factory or choose the Energy Star option, the power consumption will be restored to the energy efficiency with Energy Star standard.

For more information, please refer to (<u>www.energystar.gov/products</u>). All products of Energy Star will be posted online and can be accessed directly by governments, public institutions and consumers

Table 2-2. OSD functions

OSD Icon on Main Menu	Sub menu	Descr	ription	Controls and Adjustments
	Brightness	Adjust bar(0-100)		
	Contrast	Adjust bar(0-100)		
	Dynamia contrast	0	Dn	
	Dynamic contrast	C	Off	
		C	Off	
	Over drive	Noi	rmal	
		Ext	reme	
		sR	GB	
	_		I-P3	_
	_		lay P3	_
			.709	_
Monitor			e RGB	All input signals
controls	Color Mode	BT.2020		
		Neutral		
		Warm		
		Cool		
		Low bl	Low blue light	
			Red(0-100)	_
		Custom	Green(0-100)	_
-			Blue(0-100)	_
		Panel native		
	Scenario mode	Image creation		_
		Digital cinema		_
		Video	creation	
		Brigl	htness	
		Contrast		
		Scenario mode		
Quick settings	Right key	Color mode		All input signals
		KVM		4
		Language		4
		ECO mode		

OSD Icon on Main Menu	Sub menu	Desc	ription	Controls and Adjustments	
		Brightness			
		Сог	ntrast		
		Scenar	io mode		
	Up key	Color	r mode		
		K	VM		
		Lang	guage		
Quick settings		ECO	mode		
		Brig	htness		
			ntrast		
			rio mode	_	
	Down key		r mode VM	-	
			guage	_	
			o mode	-	
		Auto			
	Input Signal	USB-C		All input signals	
		DisplayPort			
		HDMI 1 HDMI 2			
-		On/Off			
	*USB Charging	□Upstream USB-C charging always on		Only for USB ports	
-	USB C	7.5W		Only for USB C downstream ports	
	(downstream) Charging	15W			
	*Smart Power	On	/Off	Only for USB4 ports	
Port settings	*Super USB-C Charging	On	ı/Off	Only for USB4 ports	
ron settings		KVM	On/Off		
		USB-C Priority	On/Off		
			USB-C		
			DisplayPort		
		*USB-C1 Source	HDMI 1	Only for USB C ports	
	KVM Setting		HDMI 2		
			Auto		
			DisplayPort		
		*USB-C2 Source	HDMI 1		
			HDMI 2	1	

OSD Icon on Main Menu	Sub menu	Description		Controls and Adjustments	
DP Select		DP 1.2	/ DP 1.4	HDMI is not supported	
		А	uto		
	DP daisy chain	(Dn	HDMI is not supported	
Port settings		(Dff	11	
		A	uto		
	Video range	Full ran	ge 0-255	Only for HDMI ports	
		Limited ra	inge 16-235		
		(Dff	_	
	Button Repeat Rate	De	fault		
		SI	ow	All input signals	
	Full Sc		Screen		
	Aspect Ratio	Original AR			
	Mirrored power buttonn	On	/Off	Only for USB4 ports	
	LED Indicator	On	/Off	All input signals	
	Power Button lock	On	/Off		
Advanced settings	HDR	Auto/HDR1000/HDR 10/HDR HLG/ HDR Photo/HDR Movie/HDR sRGB/ HDR Adobe RGB/HDR DCI-P3/Off			
			Off		
			PBP		
			PIP Top Right	1	
	PIP/PBP	PIP/PBP	PIP Bottom Right		
			PIP Top Left		
			PIP Bottom Left		
		Swap	On/Off		

OSD Icon on Main Menu	Sub menu	Desc	ription	Controls and Adjustments
			Left source	
			USB-C	
			DisplayPort	
			HDMI 1	
		PBP source	HDMI 2	
		PBP source	Right source	All input signals
			USB-C	
			DisplayPort	
			HDMI 1	
			HDMI 2	
			Background	
			USB-C	
	PIP/PBP Audio so	PIP source	DisplayPort	All input signals
			HDMI 1	
Advanced settings			HDMI 2	
seeings			Foreground	
			USB-C	
			DisplayPort	
			HDMI 1	
			HDMI 2	
		A 1'	Main	
		Audio source	Sub	7
		Normal]
	ECO mode	Super	saving	
	-	(Off]
	Drawing mode	On	/Off]
	Markers	Flat/Sc	cope/Off]
	T 1 1' '	(Dn]
	Local dimming	(off	
	Presence detection	Off/Fast/Normal/Slow		
Smart Feature	Sitting reminder	On/Off		All input signals
	Distance warning	On	On/Off	

OSD Icon on Main Menu	Sub menu	Descr	ription		Controls and Adjustments	
	A1	On	/Off			
Smart Feature	Ambient light detection	Note: When on,bi unava	rightness ulable.	control is	All input signals	
		Model name:	P32	2pz-30		
		Firmware:				
	Information	Firmware Scaler LX.X PD A1.94.XX.XX USB3 HUB1 XXXXX USB3 HUB2 XXXXX USB4 HUB XXXXX LAN IC 1.XXX				
		Serial Number:	VN	485511		
Menu settings	Language	English/Français/Italiano/简体中文/Español/ 日本語/Deutsch/Русский/ ไиย /Українська		All input signals		
	OSD time out	Adjust bar(5-115)				
	OSD position	Adjust bar(0-100,0-10	00)		
	Transparency	Adjust b	ar(0-100)			
	OSD rotation	Not	rmal			
	OSD Iotation	9	90			
	Factory reset	Re	eset			
No						
Input signal:	Input signal: USB-C Resolution:3840x2160 Refresh rate: 60Hz USB C Max. Power Pelivery: 140W					
* The use of Ex	treme Mode (response	e time) may result in re	duced disp	play quality w	hen fast moving	

* The use of Extreme Mode (response time) may result in reduced display quality when fast mov video graphics are displayed.

Users should check Extreme Mode (response time) to verify if it is compatible with any applications they would like to use it with.

* 1. USB C1 is USB C Upstream port(USB4 port);

2. USB C2 is USB C Upstream port(USB data port);

* 1. When the USB Upstream port is disconnected to the PC, the USB downstream port can also be charged in the sleep mode.

	USB Charging enabled		USB Charging disabled	
Downstream Port	Monitor on Monitor Sleep		Monitor on	Monitor Sleep
BC1.2 Other USB-A	$\sqrt{\sqrt{1-1}}$	$\sqrt[n]{\sqrt{1}}$	$\sqrt{\sqrt{1-1}}$	X X

2. The display can dynamically allocate the ability of USB4 ports to charge

externally based on changes in its own power consumption.

3.USB4 port can provide external power supply of 140W without dynamic changes.

Smart Feature

This section describes how to use the Smart Features of this monitor.

Presence Detection

The screen will dim when it is detected that the user is away. The screen will be turned off gradually 5 seconds after the function is triggered. The power indicator will start blinking every 0.5 seconds

Fast / Normal / Slow: Refers to the response speed from when the user is away to when the screen starts dimming

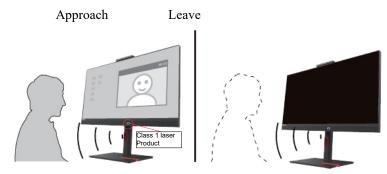
Presence Detection: After "Presence Detection" is enabled, the monitor can detect whether the user is sitting in front of the monitor. The backlight will be turned off if the user is not sitting in front of the monitor.

Note: 1. The optimal distance between the user and the front of the monitor is 300 - 1,000 mm (about 12 - 40 inches)

2. The sensor might not work correctly due to bright lights.

3. The sensor might be triggered by the material of some chairs.

4. Do not touch the fingerprint, scratch, or damage of the sensor, which might affect the performance of the sensor. ESD might affect the normal operation of the sensor.



Sitting Reminder

The monitor can detect how long the user has been using itself. If the user enables this feature, a prompt icon will appear on the upper-left corner of the screen every 20 minutes when the user is using the monitor. The icon blinks at the frequency of 1 second for 20 seconds.



Distance Warning

The monitor can detect the distance between the user and itself. When the distance reaches a specific range, a prompt icon will appear on the upper-left corner of the screen. The icon blinks at the frequency of 1 second for 20 seconds. The prompt will continue if the distance remains unchanged



Ambient light detection

When this feature is turned on, the display adjusts its brightness linearly based on the intensity of external ambient light, so that the brightness of the display is comfortable for users without causing eye strain.

Selecting a supported display mode

The display mode of 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 be changed when the display mode changes. This is normal and the image can be re-adjusted 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.

The monitor adopts Flicker-Free technology, which clears the eye visible flicker, brings comfort viewing experience and preventing users suffer from eye strain and fatigue.

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 reattach the CRT monitor temporarily until you have re-configured the system; preferably to 3840 x 2160 at 60 Hz, which is a common display mode.

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

Timing	Refresh rate(Hz)
640x480	60Hz
720x400	70Hz
800x600	60Hz
1024x768	60Hz
1280x720	60Hz
1280x800	60Hz
1280x1024	60Hz
1440x900	60Hz
1600x900	60Hz
1680x1050	60Hz
1920x1080	60Hz
1920x1200	60Hz
2560x1440	60Hz
3840x2160	60Hz

Table 2-3. Factory set display modes

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	Compliance
On	White	Normal		
Standby/Suspend	Amber	Blank	Press a key or move the mouse	ENERGY STAR
			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	Press the power button	ENERGY STAR
			There may be a slight delay before the image reappears.	

Power Management Modes

E_{tec}

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	305W (maximum, HDR 1000 on)* 265W (maximum, HDR off)* 31.4 W (typical)
Active-off mode	Inactive	Inactive	Off	Amber	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.3 W
Energy Star				_	onsumption
P _{ON}				32.31 W	

* Maximum power consumption with max luminance.

This document is informational only and reflects laboratory performance. Your product may perform differently, depending on the software, components and peripherals you ordered and shall have no obligation to update such information. Accordingly, the customer should not rely upon this information in making decisions about electrical tolerances or otherwise. No warranty as to accuracy or completeness is expressed or implied.

101.85 kWh

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.

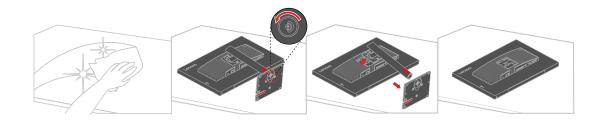
Do:

- 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 base and stand

Step 1: Place the monitor on a soft and flat surface.

Step 2: Remove the base and stand from the monitor.

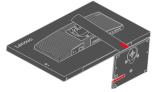


Wall Mounting (Optional)

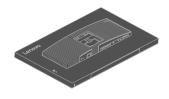
Refer to the instructions that come with the base mounting kit. To convert your LCD display from a desk-mounted to a wall-mounted display, do the following:

Step 1: Verify that the Power button is turned Off, then disconnect the power cord.

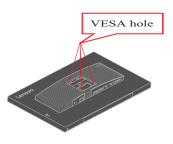
Step 2: Lay the LCD display face down on a towel or blanket.



Step 3: Remove the base from the monitor, refer to "Detaching the monitor base and stand" on page 2-10.



Step 4: Attach the mounting bracket from the VESA compatible wall mounting kit (100mm x100mm distance), VESA Mounting Screw M4 x 10 mm.



Step 5: Attach the LCD display to the wall, and follow the instructions in the wall-mounting kit.

NOTE: For use only with UL or CSA or GS-listed wall mount bracket with minimum weight/load bearing capacity of 30.48 kg (67.06 lb).

Chapter 3. Reference information

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

Monitor specifications

Dimensions	Depth	234.94 mm (9.25 in.)
	Height	608.97 mm (23.97 in.)
	Width	714.20 mm (28.12 in.)
Stand	Lift	155 mm
	Tilt	-5° to 23.5°
	Swivel	-45° to 45°
	Pivot	90°
Weight	Weight with stand assembly	10.5kg(23.1 lb)
	Weight without stand assembly (For wall mount or VESA mount considerations - no cables)	7.62kg(16.76 lb)
VESA mount	Supported	100 mm x 100 mm (3.94 in. x 3.94 in.)
Image	Viewable image size	800.1 mm (31,5 inch)
	Maximum height	392.23 mm (15.44 in.)
	Maximum width	697.31 mm (27.45 in.)
	Pixel pitch	0.1816 mm (0.0071 in.)
Power input	Supply voltage	100-240V AC 50/60Hz
	Max supply current	4.5 A
Power consumption	Normal operation	305W (maximum, HDR 1000 on)* 265W (maximum, HDR off)* 31.4W (typical)
Note: Power	Standby/Suspend	<0.5 W (USB-C port No Connector To PC)
consumption figures are for the monitor and the power supply combined	Off	<0.3 W
Video input (DP)	Interface	DP
	Input signal	VESA TMDS (Panel Link TM)
	Horizontal addressability	3840 pixels (max)
	Vertical addressability	2160 lines (max)
	Clock frequency	600 MHz

Table 3-1. Monitor specifications for type-model 63E5-GAR2-WW

Video input (HDMI)	Interface	HDMI
	Input signal	VESA TMDS (Panel Link TM)
	Horizontal addressability	3840 pixels (max)
	Vertical addressability	2160 lines (max)
	Clock frequency	600 MHz
Video input (Type-C)	Interface	Type-C(USB4)
	Input signal	VESA TMDS (Panel Link [™])
	Horizontal addressability	3840 pixels (max)
	Vertical addressability	2160 lines (max)
	Clock frequency	600 MHz
	Transmission rate	USB4 GEN3 40G
	Power delivery	Support EPR 140W& SPR 100W
		28V/(3.75A-5A)&20V(2.25A- 5A)&15V/3A&9V/3A&5V/3A
		Smart Power max up to 140W
RJ45 Connector (1G)	Connect Internet. You can surf Internet via RJ45 only after you have connected the USB cable (Type-A to Type-C or Type-C to Type-C) from the computer to the monitor.	
Communications	VESA DDC CI	
Supported Display	Horizontal frequency	30 kHz -160 kHz
Modes	Vertical frequency	23 Hz - 76 Hz
	Native Resolution	3840 x 2160 at 60 Hz
Temperature	Native Resolution Operating	3840 x 2160 at 60 Hz 0° to 40° C (32° to 104° F)
Temperature		
Temperature	Operating	0° to 40° C (32° to 104° F)
Temperature Humidity	Operating Storage	0° to 40° C (32° to 104° F) -20° to 60° C (-4° to 140° F)
-	Operating Storage Shipping	0° to 40° C (32° to 104° F) -20° to 60° C (-4° to 140° F) -20° to 60° C (-4° to 140° F)

Table 3-1. Monitor specifications for type-model 63E5-GAR2-WW

The recommendation for DP Daisy Chain

SDR Mode

1st video source	Timing / Color Depth	Maximum number of total monitors in DP Daisy Chain
DisplayPort	3840 x 2160 60Hz / 8bits	4
USB-C		4

1st video source	Timing / Color Depth	Maximum number of total monitors in Daisy Chain mode
DisplayPort	3840 x 2160 60Hz / 10bits	3
USB-C		3

HDR Mode

1st video source	Timing / Color Depth	Maximum number of total monitors in DP Daisy Chain mode
DisplayPort	3840 x 2160 60Hz / 10bits	3
USB-C		3

Note:

1. It is based on the DisplayPort 1.4/HBR3.

2. The capability will be different based on the USB setting in USB C.

3. The scenario will be different according to the OS and the capability of the GPU.

4. The color depth will be different according to the OS and the capability of the GPU in HDR mode.

5. Daisy Chain & HDR Daisy Chain performance is controlled by graphic card.

6. Open the HDR, some graphics cards may cause the second screen (daisy chain) fail to display.

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	,
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Problem	Possible cause	Suggested action	Reference
The words "Out of Range" are shown on the screen, and the power indicator is flashing white.	The system is set to a display mode which is not supported by the monitor.	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 Center.	"Selecting a supported display mode"on page 2-12
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 1-6
	The color settings may be incorrect.	Select another color setting from the OSD menu.	"Adjusting your monitor image"on page 2-3
	The drawing background of CATIA V5 software is special and may cause screen flicker.	Please change the setting to High(Alpha Blending) or upgrade to 3D EXPERIENCE.	
The power indicator is not lit and there is no image.	 The monitor's power switch is not switched on. The power cord is loose or disconnected. There is no power at the outlet. 	 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 1-6
Screen is blank and power indicator is amber.	The monitor is in Standby / Suspend mode.	 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 2-13

Table 3-2. Troubleshooting

Problem	Possible cause	Suggested action	Reference
The power indicator is amber, 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 1-6
	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
 Fuzzy lines in text or a blurry image. Horizontal or vertical lines through the image. 	 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: 3840 x 2160 at 60 Hz.	"Adjusting your monitor image"on page 2-3
		Perform automatic image setup. If automatic image setup does not help, perform manual image setup.	"Selecting a supported display mode" on page 2-12
		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.

Manually installing the monitor driver

Below are steps for manually installing the monitor driver in Microsoft Windows 10, Microsoft Windows 11.

Installing the monitor driver in Windows 10

To use the Plug and Play feature in Microsoft Windows 10, do the following:

- 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 10 operating system.
- 4. From the Lenovo website https://pcsupport.lenovo.com/solutions/p32pz_30, find the corresponding monitor driver and download it to a PC to which this monitor is connected (such as a desktop).
- 5. On the Desktop, move mouse to bottom-left corner of screen, right-click choose **Start**, then click the item of **Device Manager**.
- 6. Double click the Monitor tab.
- 7. Right-click the Generic Monitor.
- 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 **Hard Disk** button. By clicking the **Browse** button, browse and point to the following path:

X:\Monitor Drivers\Windows 10

(where **X** indicates "the folder in which the downloaded driver is located" (such as a desktop)).

- 13. Select the "len P32pz-30.inf" file and click the Open button. Click the OK button.
- 14. In the new window, select LEN P32pz-30 and click Next.
- 15. After the installation is complete, delete all downloaded files and close all windows.
- 16. 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 3840 x 2160 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

Installing the monitor driver in Windows 11

To use the Plug and Play feature in Microsoft Windows 11, do the following:

- 1. Turn off the computer, 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 11 operating system.
- 4. From the Lenovo website https://pcsupport.lenovo.com/solutions/p32pz_30, find the corresponding monitor driver and download it to a PC to which this monitor is connected (such as a desktop).
- 5. On the Desktop, move mouse to bottom-center of screen, right-click choose **Start**, then click the item of **Device Manager**.
- 6. Double click the Monitor tab.
- 7. Right-click the Generic Monitor.
- 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 **Hard Disk** button. By clicking the **Browse** button, browse and point to the following path:

X:\Monitor Drivers\Windows 11

(where **X** indicates "the folder in which the downloaded driver is located" (such as a desktop)).

- 13. Select the "len P32pz-30.inf" file and click the Open button. Click the OK button.
- 14. In the new window, select LEN P32pz-30 and click Next.
- 15. After the installation is complete, delete all downloaded files and close all windows.
- 16. 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 3840 x 2160 at a refresh rate of 60 Hz, or 640 x 480 at a refresh rate of 60 Hz.

Getting further help

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

Service information

Customer responsibilities

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

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

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

Service parts

The following parts are for use by Lenovo service, or Lenovo aurthorized dealers, to support the customer warranty. Parts are for service use only. The table below shows information for model 63E5-GAR2-WW.

FRU (FIELD REPLACEABLE UNIT) PART NUMBER	DESCRIPTION	Machine Type/ Model (MTM)	COLOR
5D11L69248	P32pz-30 - 31.5 inch FRU Monitor (HDMI)	63E5	Raven Black
5C11L69250	P32pz-30 USB4 cable	63E5	Raven Black
5C11L69245	P32pz-30 USB Type C to Type A cable	63E5	Raven Black
5C11L69251	P32pz-30 DP1.4 cable FRU	63E5	Raven Black
5C11L69254	P32pz-30 HDMI2.1 cable FRU	63E5	Raven Black
5SE1L69247	P32pz-30 - FRU Stand and Base	63E5	Raven Black

Table 3-3. List of service parts

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://consumersupport.lenovo.com

Country or Region	Telephone Number
Argentina	0800-666-0011 (Spanish, English)
Australia	1-800-041-267 (English)
Austria	0810-100-654 (For local rate) (German)
Belgium	Warranty service and support: 02-339-36-11 (Dutch, French)
Bolivia	0800-10-0189 (Spanish)

Country or Region	Telephone Number
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	Dial 800-1111 (English)
Canada	1-800-565-3344 (English, French)
Chile	800-361-213 (Spanish)
China	Technical Support Line: 400-990-8888 (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: 0810-631-213 (hardware) (French)
Germany	Warranty service and support: 0800-500-4618 (toll-free) (German)

Country or Region	Telephone Number
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 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)
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)

Country or Region	Telephone Number
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)
Turkiye	444-04-26 (Turkish)
United Kingdom	Standard warranty support: 03705-500-900 (local rate) Standard warranty support: 08705-500-900 (English)

Country or Region	Telephone Number
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

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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/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、 https://www.lenovo.com/jp/ja/services_warranty/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、 https://www.lenovo.com/jp/ja/services_warranty/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 https://www.lenovo.com/jp/ja/services_warranty/recycle/perecycle/. 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 https://www.lenovo.com/jp/ja/services_warranty/recycle/perecycle/.

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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