

Lenovo

ThinkVision

ThinkVision LFD E65

User Guide

Machine Types: 64ACGAT1WW

Think

Product numbers

A25645UE0
64ACGAT1WW

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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.

الرجاء قراءة معلومات السلامة قبل تركيب هذا المنتج.

Преди инсталиране на продукта, прочетете Информация за безопасност.

Před instalací tohoto produktu si přečtěte bezpečnostní informace.

Før du dette tages i brug produkt, skal du læse sikkerhedsoplysningerne.

Lesen Sie die Sicherheitshinweise, bevor Sie das Gerät installieren.

Πριν εγκαταστήσετε αυτό το προϊόν, διαβάστε τις Πληροφορίες για την ασφάλεια.

Antes de instalar este producto, lea la Información de seguridad.

Ennen kuin asennat tämän tuotteen, lue Turvallisuustiedot.

Avant d'installer ce produit, lisez les Informations de sécurité.

לפני התקנת המוצר, חשוב לקרוא את המידע בנושא בטיחות.

Prije ugradnje proizvoda pročitajte obavijesti o sigurnosti.

A termék használatba vétele előtt olvassa el a biztonsági tudnivalókat.

Sebelum memasang produk ini, baca Informasi Keselamatan.

Prima di installare il prodotto, leggere le informazioni sulla sicurezza.

本製品を設置する前に、安全に関する情報をお読みください。

본 제품을 설치하기 전에 안전 정보를 숙지하십시오.

Lees de veiligheidsinformatie voorafgaand aan het installeren van dit product.

Les sikkerhetsinformasjonen før du installerer produktet.

Przed instalacją tego produktu należy przeczytać Informacje dotyczące bezpieczeństwa.

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

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

Înainte de a instala acest produs, citiți informațiile privind siguranța.

Перед установкой продукта прочтите раздел "Информация о безопасности".

Před inštaláciou tohto výrobku si prečítajte bezpečnostné informácie.

Pred namestitvijo tega izdelka preberite varnostne informacije.

Pre instaliranja ovog proizvoda, pročitajte Bezbednosne informacije.

Läs säkerhetsinformation innan du installerar den här produkten.

โปรดอ่านข้อมูลด้านความปลอดภัยก่อนที่จะติดตั้งผลิตภัณฑ์นี้

Bu ürünü kurmadan önce Güvenlik Bilgilerini okuyun.

Перш ніж встановлювати пристрій, прочитайте інформацію з техніки безпеки.

在安装本产品之前, 请阅读“安全事项”。

安裝本產品前, 請閱讀安全資訊。

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

Chapter 1. Getting started

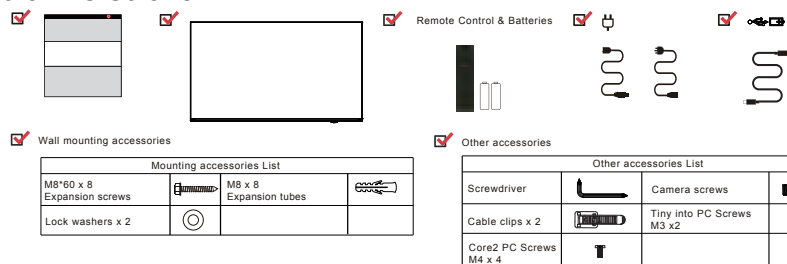
This User's Guide provides detailed operation instructions for the user. For quick instruction overview, please see the Setup Poster for brief information.

LFD E65 supports Lenovo Accessories and Display Manager*-**ThinkColour**.

Shipping contents

The product package should include the following items:

- Information Flyer
- Flat Panel Monitor
- Remote Control
- Batteries
- Power cord for LFD
- Power cord for adaptor
- USB C Cable
- Wall mounting accessories:
Expansion screws:M8*60 x 8
Expansion tubes:M8 x 8
Lock washers x 2
- Other accessories:
Screwdriver
Cable Clipsx 2
Camera screws
Tiny into PC Screws:M3 x 2
Core2 PC Screws:M4 x 4



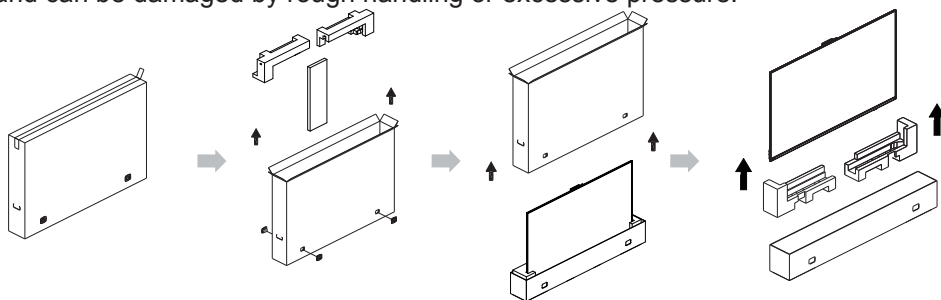
*: Depending on many factors such as the processing capability of peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and is typically slower than the data rates as defined by the respective USB specifications: - 5 Gbit/s for USB 3.1 Gen 1; 10 Gbit/s for USB 3.1 Gen 2 & 20 Gbit/s for USB 3.2.

We suggest to use the cable that we provide in order to obtain better user experience.

Notice for use

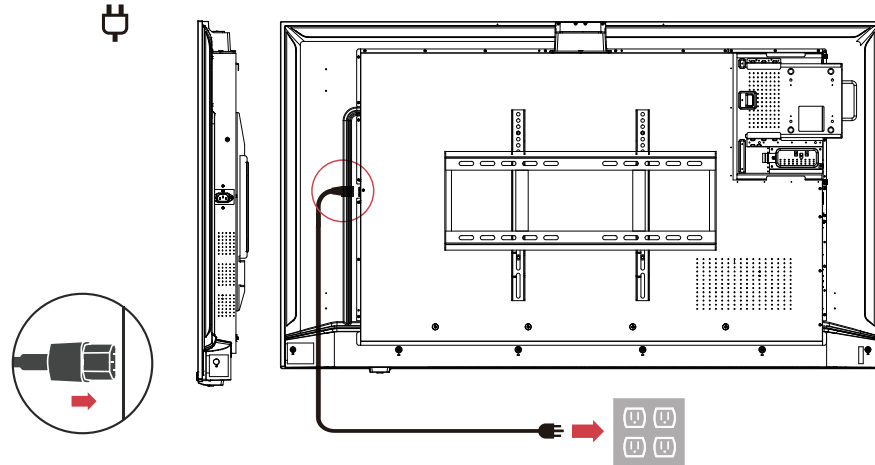
To set up your monitor, please see the illustrations below.

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.

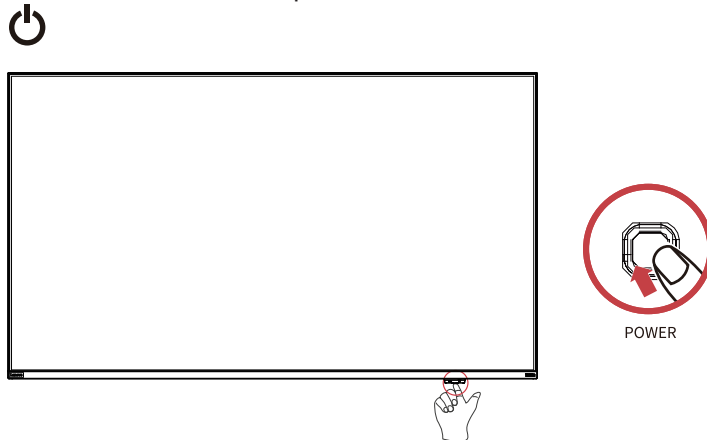


Insert the power cord into the monitor, then plug the monitor power cord and the computer cord into grounded electrical outlets.

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.

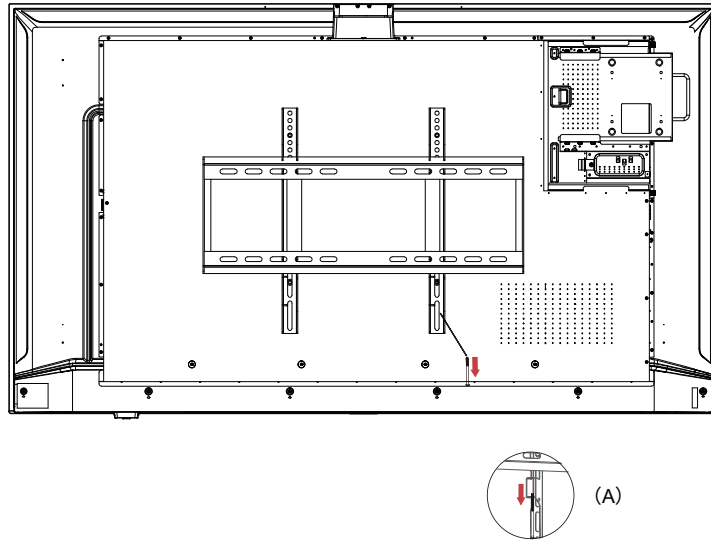


Power on the monitor and the computer.

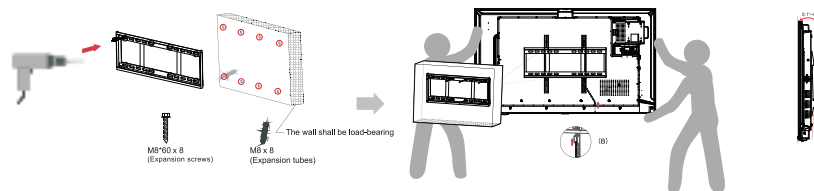


Mounting on a Wall

Unscrew the two wall screws and remove the beam as shown in picture (A).

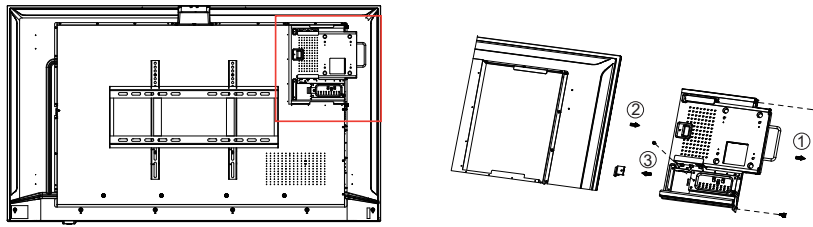


1. Install the wall board on the wall: Place the wall board horizontally on the suitable wall, mark the opening position with a pencil, and pre-position 8 of them Screw holes (4 on the top and bottom, the customer can choose the gap between different screws according to the wall), and then use a percussion drill to drill the holes. The drilling depth is recommended to be more than 65mm, and it is recommended to open the wall hole 10mm, put the M8 expansion tube into the hole, and expand it with M8*60. The expansion screws are fixed through the wall mounting plate. The operation process is shown in the figure above;
2. Hang the machine on the wall mounting board and lock it with M5*100 round head screws x 2, Prevent the machine from being broken outward. This is shown in Figure (B).



Install the Tiny/wiring diagram (optional)

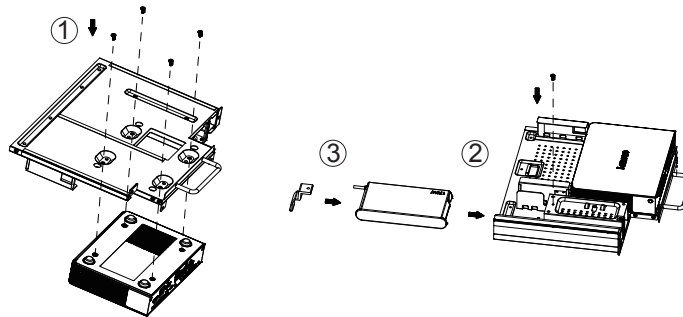
1. Remove the PC bracket from the rear-cover



Steps for release the PC bracket:

- 1).Remove the 2PCS BOX screws;
- 2).Remove the PC bracket from the rear-cover;
- 3).Release screws and platen from PC bracket.

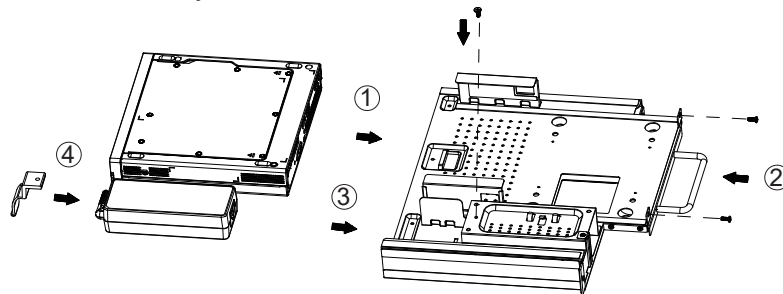
2. Install Core2 PC in PC bracket



Installation process:

- 1).Use 4pcs M4 screws to lock the Core2 PC and bracket;
- 2).Push the power adapter from left to right into the bracket to the right limit plate;
- 3).Install the lock TAB and limit the power adapter from the left side

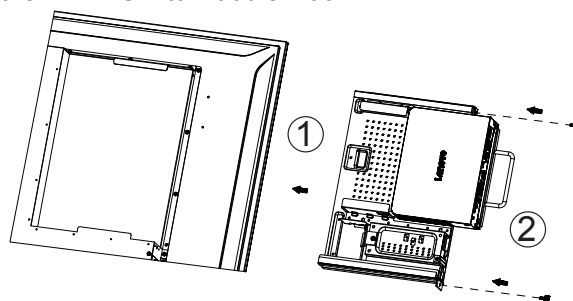
3. Install the Tiny into PC bracket



Tiny PC installation process;

- 1).Push the Tiny PC into the bracket from left to right;
- 2).Lock Tiny and bracket with 2pcs M3 screws;
- 3).Push the power adapter from left to right into the bracket to the right limit plate;
- 4).Install the lock TAB

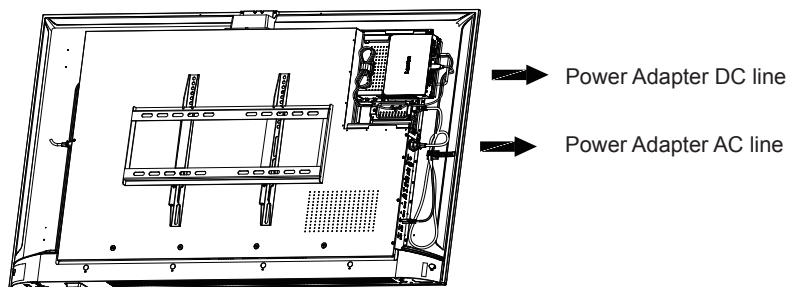
4. Install the mini PC into Huddle Room



Install Mini PC to Huddle room rear-cover:

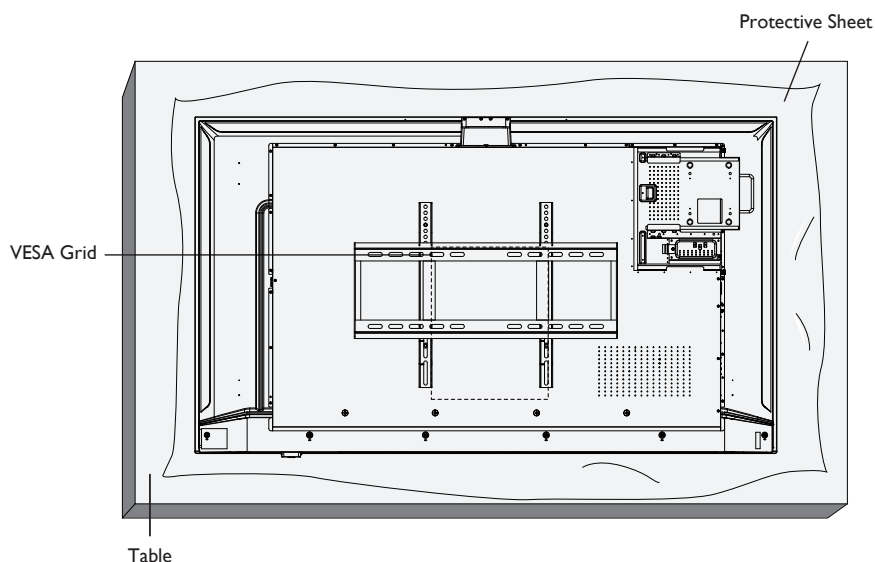
- 1).Push the bracket assembly that holds the PC into the machine from right to left;
- 2).Lock the bracket assembly to the machine.

5.Core2 PC installation wiring diagram



Wall Mounting(Optional)

mount this display to a wall, you will have to obtain a standard wall-mounting kit (commercially available). We recommend using a mounting interface that complies with TUV-GS and/or UL1678 standard in North America.



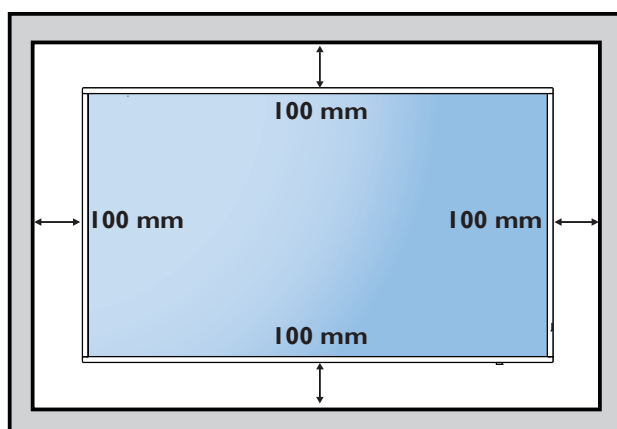
Caution:

To prevent the display from falling:

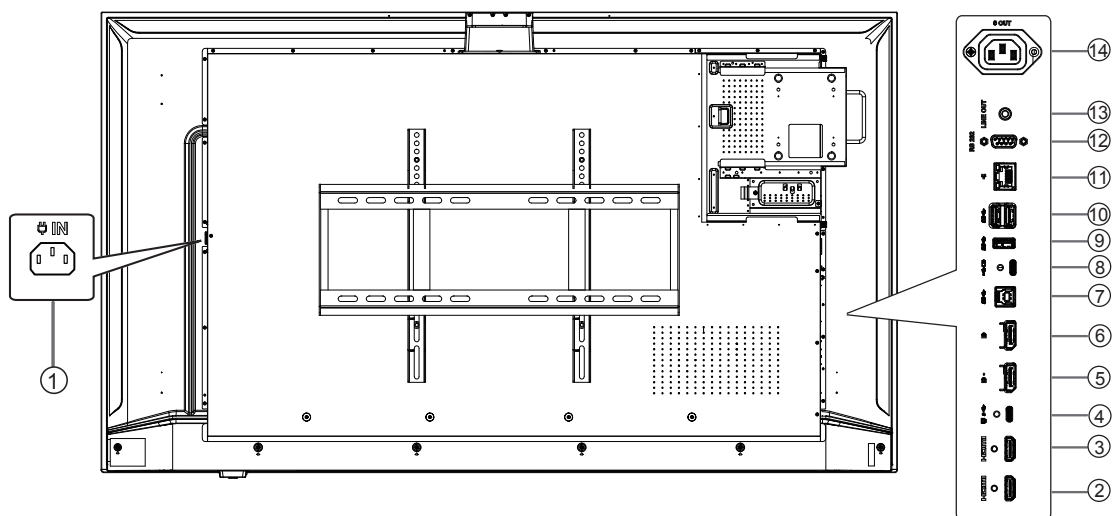
- For wall or ceiling installation, we recommend installing the display with metal brackets which are commercially available. For detailed installation instructions, refer to the guide received with the respective bracket.
- To lessen the probability of injury and damage resulting from fall of the display in case of earthquake or other natural disaster, be sure to consult the bracket manufacturer for installation location.

Ventilation Requirements for enclosure locating

To allow heat to disperse, leave space between surrounding objects as shown in the diagram below.



Input/Output Terminals



- ① **AC IN (AC IN)**
AC power input from the wall outlet.
- **HDMI / HDMI**
HDMI video/audio input.
- **USB C (USB C)**
USB C video/audio input. This USB C upstream port supports output typical power 65W(20V/3.25A, 15V/3A, 9V/3A, 5V/3A), maximum 96W(20V/4.8A).
- **DP OUT (DP OUT)**
DP video/audio output.
- **DP IN (DP IN)**
DP video/audio input.
- **USB UP (USB UP)**
For connection to a computer.
- **USB C (USB C)**
Connect your USB storage device. This port supports output power 15W (5V/3A)
- **USB (USB)**
Connect your USB storage device.
- **USB (USB)**
Connect your USB storage device.
- **LAN**
Gigabit networks connection.
- **RS232 IN (RS232 IN)**
RS232 serial communication control.
- **LINE OUT (LINE OUT)**
Audio output for external AV device.
- **AC OUT (AC OUT)**
AC power supply to the AC IN jack of a media player.

Inserting the batteries in the remote control

The remote control is powered by two 1.5V AAA batteries.

To install or replace the batteries:

1. Press and then slide the cover to open it.
2. Insert the batteries with the correct polarity (+) and (-).
3. Replace the cover.

Caution

Incorrect use of batteries may cause leakage or explosion. Be sure to follow the instructions below:

- Insert “AAA” batteries with the correct polarity (+ and -).
- Do not mix battery types.
- Do not use a new battery with a used one together. Otherwise, it may cause leakage or shorten the life of the batteries.
- Remove the dead batteries immediately to avoid battery leakage in the battery compartment. Do not touch exposed battery acid, as it may cause injury to your skin.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion; leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas; and a battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.
- Note: Remove the batteries from the battery compartment when not using for an extended period of time.

Handling the remote controlRemote Control

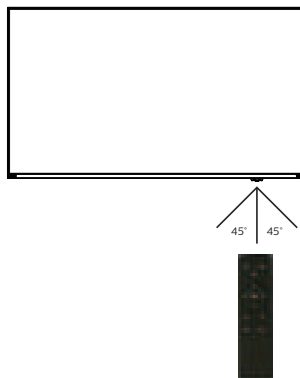
- Do not drop or apply shock to the remote control.
- Do not allow any liquid to get inside the remote control. If water has entered the remote control, wipe the remote control with a dry cloth immediately.
- Do not place the remote control near heat and steam sources.
- Do not attempt to disassemble the remote control, unless you need to place batteries in the remote control.

Operating range of the remote control

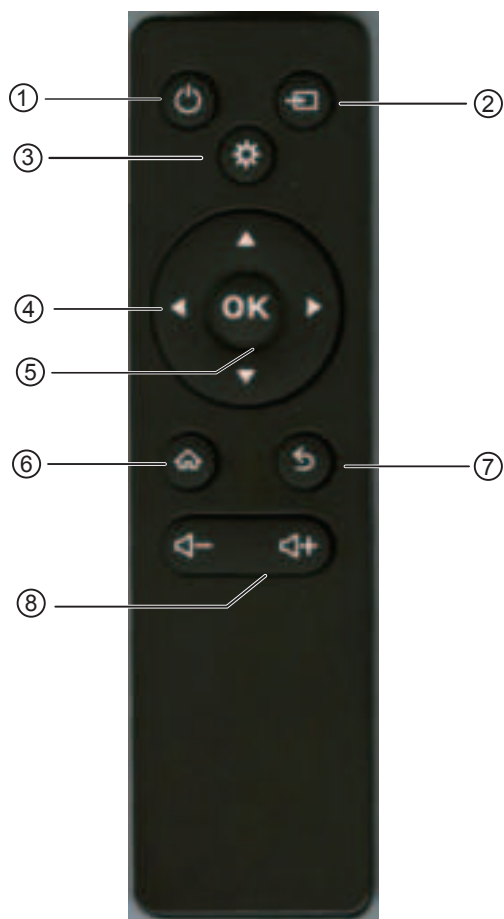
Point the top front of the remote control at the remote sensor on the display when you press the buttons.

Use the remote control within a distance of less than 10m from the display's sensor, and a horizontal angle of less than 45° and vertical of less than 15°.

Note: The remote control may not function properly when the remote control sensor on the display is under direct sunlight or strong illumination, or when there is an object between the remote control and the remote sensor of the display.



Remote Control



⑥ [🏠] HOME button

Go to/ Exit Main Menu OSD.

○ [↶] BACK button

Return to the previous menu page or exit from the previous function.

○ [−] [+] VOLUME button

Decreases/Increases the volume.

① [🔌] POWER button

Power ON/OFF.

○ [📺] SOURCE button

Go to/Exit Video source List.

○ [☀️] Light button

Adjust brightness.

○ NAVIGATION buttons



Navigate in the menu and select items.

○ [OK] button

Confirm an entry or selection

.

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.

Chapter 2.Adjusting and using your monitor

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

Comfort and accessibility

Good ergonomic practice is important to get the most from your personal computer and to avoid discomfort. Arrange your workplace and the equipment you use to suit your individual needs and the kind of work that you perform. In addition, use healthy work habits to maximize your performance and comfort while using your computer. For more detailed information on any of these topics, visit the Healthy Computing Web site at:

<http://www.lenovo.com/healthycomputing/>.

Arranging your work area

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

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

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

Positioning and viewing your monitor

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

- **Viewing distance:** Recommended viewing distance between the eye and the monitor screen is 1.5 x 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 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 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

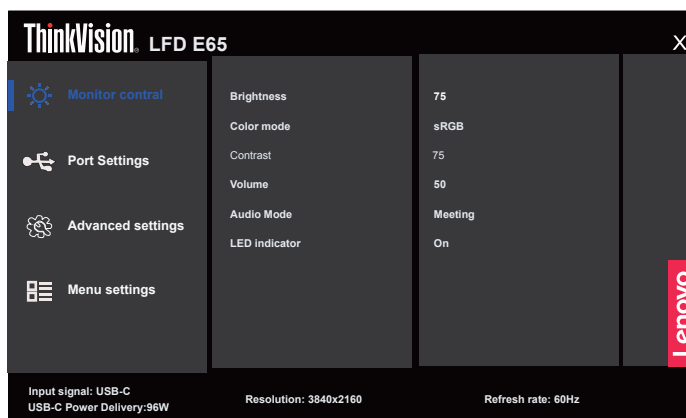
Lenovo is committed to providing greater access to information and technology to people with disabilities. With assistive technologies, users can access information in the way most appropriate to their disability. Some of these technologies are already provided in your operating system; others can be 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 On-Screen Display(OSD) controls

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



To use the controls:

1. Use remote control [HOME] button to open the main OSD menu.
2. Use remote control Δ or ∇ to move among the icons. Select an icon and use remote control [OK] button to access that function. If there is a sub-menu, you can move between options using Δ or ∇ , then press [OK] to select that function. Use Δ or ∇ to make adjustments then Use remote control [OK] button to save.
3. Use remote control [BACK] button 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 (www.energystar.gov/products). All products of Energy Star will be posted online and can be accessed directly by governments, public institutions and consumers.

Table 2-1. OSD functions

OSD Icon on Main Menu	Sub menu	Description	Controls and Adjustments
Monitor Controls	Brightness	Adjusts overall screen brightness.	All input ports
	Color Mode	• sRGB • Neutral • Warm • Cool • Custom 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.	
	Contrast	Adjusts difference between light and dark areas.	
	Volume	Adjust the value.	
	Audio Mode	• Meeting • Movie	
	LED indicator	• On • Off	
Port Settings	Boot On Source	• Off • USB-C • DisplayPort • HDMI1 • HDMI2	All input ports
	Input Signal	• Auto • USB C • DisplayPort • HDMI1 • HDMI2 • USB-C priority	
	Fast Mode	• On • Off	
	USB Select	• USB2.0 • USB3.0	
	USB C Charging	• Smart power charging • Priority USB-C charging	for USB-C Port
	Video range	• Auto • Full range 0-255 • Limited range 16-235 Note: Refers to RGB range of HDMI input.	
	DP Select	• DP 1.4 • DP 1.2	for DP Port
Advanced settings	Mirrored power button	• On • Off	All input ports
	HDR 10	• Off • Auto	
	PIP/PBP	• PIP/PBP • Swap • PBP source • PIP source • Audio source	
	AI power saving	• On • Off	

OSD Icon on Main Menu	Sub menu	Description	Controls and Adjustments
Menu settings	Information	• Model name • Refresh Rate • Firmware - Scaler - PD - USB Hub1 - USB Hub2 • Serial number	All input ports
	Language	Select OSD Languages. Note: The language chosen only affects the language of the OSD. It has no effect on any software running on the computer.	
	OSD position	Adjust bar 0~100(H,V)	
	OSD timeout	Adjust bar 5~60	
	Transparency	0 ~100	
	Factory reset	• Reset • No	
*Low Blue Light: The display uses the low blue light panel. It complies with TÜV Rheinland Low Blue Light Hardware Solution certification under factory reset/default setting (Low Blue Light=Standard, Brightness:75%, Contrast: 75%, CCT: Warm). Flicker-free technology is designed to regulate brightness and reduce flicker for more comfortable viewing.			

Selecting a supported display mode

The display mode of the monitor uses is controlled by the computer. Therefore, refer to your computer documentation 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 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 reattach the CRT monitor temporarily until you have re-configured the system; preferably to 3840x2160 at 60 Hz, which is a common display mode.

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

Note: According to the VESA standard, there may be a certain error (+/-1Hz) when calculating the refresh rate (field frequency) of different operating systems and graphics cards. In order to improve compatibility, the nominal refresh rate of this product has been rounded off. Please refer to the actual product.

Table 2-2 Factory set display modes

Timing	Refresh rate(Hz)
640x480	60 Hz
640x480	67 Hz
640x480	72 Hz
640x480	75 Hz
720x400	70 Hz
800x600	60 Hz
800x600	72 Hz
800x600	75 Hz
832x624	75 Hz
1024x768	60 Hz
1024x768	70 Hz
1024x768	75 Hz
1280x800	60 Hz
1280x1024	60 Hz
1280x1024	75 Hz
1366x768	60 Hz
1440x900	60 Hz
1600x900	60 Hz
1920x1080	60 Hz
3840x2160	60Hz

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.

Table 2-3. Power indicator

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

Power Management Modes

VESA Modes	Horizontal Sync	Vertical Sync	Video	Power Indicator	Power Consumption
Normal operation	Active	Active	Active	White	380 W (maximum)* 110 W (typical)
Active-off mode	Inactive	Inactive	Off	Amber	Less than 0.5 W
Switch off	-	-	-	Off	Less than 0.3 W

Energy Star	Power Consumption
P _{ON}	100 W
E _{TEC}	146 kWh

**** 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.

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.

Chapter 3.Reference information

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

Monitor specifications

Table 3-1. Monitor specifications for type-model LFD E65/64ACGAT1WW		
Dimensions	Depth	125.95 mm (4.96 in.)
	Height	846.98 mm (33.35 in.)
	Width	1446.28 mm (56.94 in.)
Stand	Tilt	Range: 0.1°~5°
VESA mount	Supported	300 mm x 300 mm (11.81 in. x 11.81 in.)
Image	Viewable image size	1638.96 mm (64.5 in.)
	Maximum height	837.74mm (32.98 in.)
	Maximum width	1447.28mm (56.98 in.)
	Pixel pitch	0.237mm(0.01 in.)
Power input	Supply voltage	100-240V AC
	Max supply current	7A
Power consumption Note: Typical power consumption is tested under OSD default setting.	Normal operation	<380 W (Max) <110 W (Typical)
	Standby/Suspend	<0.5 W * (The USB C port is not included)
	Off	<0.3 W at 100VAC and 240VAC
USB C	Interface	USB C
	Horizontal addressability	3840 pixels (max)
	Vertical addressability	2160 lines (max)
	Clock frequency	533.25 MHz (max)
DP	Interface	DP*
	Horizontal addressability	3840 pixels (max)
	Vertical addressability	2160 lines (max)
	Clock frequency	533.25 MHz (max)
HDMI	Interface	HDMI
	Horizontal addressability	3840 pixels (max)
	Vertical addressability	2160 lines (max)
	Clock frequency	594 MHz (max)

*: DP1.4 (HBR3: 32.4 Gbit/s) HBR3:High Bit Rate3

Table 3-1. Monitor specifications for type-model LFD E65/64ACGAT1WW		
Table 3-1. Monitor specifications for type-model LFD E65/64ACGAT1WW		
Communications	VESA DDC/CI	
Supported Display Modes	Horizontal frequency	29 kHz – 120 kHz
	Vertical frequency	HDMI:30-75Hz DP/Type-C:50-75Hz
	Native Resolution	3840x2160 at 60 Hz
Temperature	Operating	0° to 40°C (32°F to 104° F)
	Storage	-10° to 60°C (14°F to 140° F)
	Shipping	-10° to 60°C (14° F to 140° F)
Humidity	Operating	20% to 80% non-condensing
	Storage	10% to 80% non-condensing
	Shipping	10% to 80% non-condensing

Internal Speakers

Item	Specifications
Output	10 W(L) +10 W(R)
Impedance	6 Ω

The recommendation for Daisy Chain

Graphic card	1st video source in Daisy Chain			Maximum number of total monitors in Daisy Chain
Resolution / Color Depth	Source	USB Select	Resolution / Color Depth	
HBR3 DSC 3840x2160/60Hz, 10bits	USB C	USB 3.0	3840x2160/60Hz, 10bits	2
		USB 2.0	3840x2160/60Hz, 10bits	4
	DP	NA	3840x2160/60Hz, 10bits	4
HBR3 3840x2160/60Hz, 10bits	USB C	USB 3.0	1920x1080/60Hz, 10bits	2
		USB 2.0	3840x2160/30Hz, 10bits	2
	DP	NA	3840x2160/30Hz, 10bits	3
HBR3 3840x2160/60Hz, 8bits	USB C	USB 3.0	3840x2160/30Hz, 8bits	2
		USB 2.0	3840x2160/30Hz, 8bits	4
	DP	NA	3840x2160/30Hz, 8bits	2
HBR2 3840x2160/60Hz, 8bits	USB C	USB 3.0	1920x1080/60Hz, 8bits	2
		USB 2.0	3840x2160/30Hz, 8bits	2
	DP	NA	3840x2160/30Hz, 8bits	2
HBR2 3840x2160/60Hz, 10bits	USB C	USB 3.0	1920x1080/60Hz, 10bits	2
		USB 2.0	3840x2160/30Hz, 10bits	2
	DP	NA	3840x2160/30Hz, 10bits	2

Note:

1. The capability will be different based on the USB setting in USB C
2. The scenario will be different according to the OS and the capability of the GPU
3. The color depth will be different according to the OS and the capability of the GPU in HDR mode.
4. Daisy Chain & HDR Daisy Chain performance is controlled by graphic card.
5. DSC (Display Stream Compression) is a technology used for video and image

compression that aims to reduce data transmission bandwidth while maintaining high-quality image 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

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 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 1-8
	The color settings may be incorrect.	Select another color setting from the OSD menu.	"Adjusting your monitor image" on page 2-3
	The automatic image setup function was not performed.	Perform automatic image setup.	"Adjusting your monitor image" on page 2-3
The power indicator is not lit and there is no image.	• 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 1-3
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 2-6
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 1-3
	The monitor brightness and contrast are at the lowest setting.	Adjust the brightness and contrast setting on the OSD menu.	"Adjusting your monitor image" on page 2-3

Problem	Possible cause	Suggested action	Reference
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

Manually installing the monitor driver

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

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 operating system.
4. From the Lenovo website https://pcsupport.lenovo.com/solutions/lfd_e65, find the corresponding monitor driver and download it to a PC to which this monitor is connected (such as a desktop).
5. Right-click the Windows **Start** button on the desktop, then click **Device Manager**, and double click **Monitor**.
6. Double-click **Generic Monitor**.
7. Click the **Driver** tab.
8. Click **Update Driver**, and then click **Browse Computer to find the driver**.
9. Click **Let me pick from a list of available drivers on my computer**.
10. Click the **Have Disk...** button. By clicking the **Browse** button, browse and point to the following path: **X:\Monitor Drivers\Windows** (where X indicates “the folder in which the downloaded driver is located” (such as a desktop)).
11. Select **lfd e65.inf** file, Click **Open** button. Click **OK** button.
12. In the new window, select **LFD E65** and click **Next**.
13. After the installation is complete, delete all downloaded files and close all Windows.
14. Restart the system. The system will automatically select the refresh rate and the corresponding color matching profile.

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 authorized dealers to support the customer warranty. Parts are for service use only. The table below shows information for model (A25645UE0/LFD E65/64ACGAT1WW).

Table 3-3. List of service parts

FRU (Field Replaceable Unit) Part number	Description	Machine Type Model (MTM)	Colour	GEOGRAPHY
5D11P36222	LFD E65(A25645UE0) - 65 inch LFD (HDMI)	64AC	Black	WORLDWIDE
5B11R98192	Remote Controller with battery for Huddle	64AC	Black	WORLDWIDE
5C11P37229	USB-C to C(Gen1) Cable 3m for for Huddle	64AC	Black	WORLDWIDE
5C11P37230	Power cord 2 for adaptor 1m for for Huddle	64AC	Black	WORLDWIDE
5M21R98079	Tiny & Core conversion box for Huddle	64AC	Black	WORLDWIDE
5SE1P38229	Wall mount bracket for Huddle	64AC	Black	WORLDWIDE

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 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 (local phone) (German)
Belgium	Warrant service and support: 02-339-36-11 (Dutch, French)

Country or Region	Telephone Number
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)

Country or Region	Telephone Number
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)
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)

Country or Region	Telephone Number
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)
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)

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<http://www.lenovo.com/recycling>

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https://www.lenovo.com/jp/ja/services_warranty/recycle/pcrecycle/. Pursuant to the Law for Promotion of Effective Utilization of Resources, the collecting and recycling of home-used computers and monitors by the manufacturer was begun on October 1, 2003. This service is provided free of charge for home-used computers sold after October 1, 2003. For details, visit the Lenovo Web site at https://www.lenovo.com/jp/ja/services_warranty/recycle/personal/.

Disposing of Lenovo computer components

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Use only the power cords and power adapters supplied by the product manufacturer. Do not use the ac power cord for other devices.