

# User Guide

Lenovo  
**IDEAPAD**

Lenovo

IdeaPad Slim 5x (14", 9)

## Read this first

Before using this documentation and the product it supports, ensure that you read and understand the following:

- [Generic Safety and Compliance Notices](#)
- [Safety and Warranty Guide](#)
- [Setup Guide](#)

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## About this guide

- This guide applies to the Lenovo product model listed below. Illustrations in this guide may look slightly different from your product model.

Model name	Machine type (MT)
IdeaPad Slim 5 14Q8X9	
IdeaPad Slim 5 14Q8X9 1	83HL

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at [https://pcsupport.lenovo.com/docs/generic\\_notices](https://pcsupport.lenovo.com/docs/generic_notices).
- This guide may contain information about accessories, features, and software that are not available on all models.
- This guide contains instructions that are based on the Windows operating system. These instructions are not applicable if you install and use other operating systems.
- Microsoft® makes periodic feature changes to the Windows® operating system through Windows Update. As a result, the operating system related instructions may become outdated. Refer to Microsoft resources for the latest information.
- The content of the guide is subject to change without notice. To obtain the latest version, go to <https://support.lenovo.com>.



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# Chapter 1. Meet your computer

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## Front



Figure 1. Front view

No.	Description
1	Microphones
2	Infrared LED
3	Camera shutter
4	Camera
5	Camera light
6	Screen
7	Antennas

## Microphones

The microphones are the PC's built-in sound input devices. They capture your voice and ambient sound and convert them into digital form. Microphones are essential components when you use your PC for video conferencing or voice recording.

## Infrared LED

The infrared LED generates and emits near-infrared waves that are received and used by a camera (or a dedicated infrared camera) for facial recognition.

## Camera shutter

The camera shutter is a sliding cap that you can move to block the camera lens.

**Note:** The camera shutter is designed for privacy protection. When the camera lens is blocked, the camera function is disabled.

## Camera

The built-in camera captures visible light and converts it to digital signals. It is used for video recording and video conferencing.

The camera for some models can also detect near-infrared waves. For those models, an IR LED is also included to emit near-infrared waves. They are used together to achieve face-based authentication.

## Camera light

The camera light indicates whether the camera is activated.

*Table 1. Camera light status and description*

Camera light status	Description
On	The camera is activated.
Off	The camera is not activated.

## Screen

The screen of the built-in display is where text, graphics, and videos are displayed.

Some models offer touch-enabled screens, which allow you to interact with your PC by intuitively touching buttons, icons, and menu items displayed on the screen. Touch-enabled screens also support multi-finger gestures.

## Antennas

The antennas transmit and receive radio waves to allow data to be transferred between your PC and a Wi-Fi® network device or a Bluetooth device.

**Note:** The antennas are hidden inside the PC.

## Base



Figure 2. Base view

No.	Description
1	Power light
2	Power button
3	Speakers
4	Keyboard
5	Touchpad

## Power light

The power light indicates the current power state of the PC: whether it is powered on, powered off, in sleep mode, or in hibernation mode.

When the PC is powered on, this light can also indicate low battery by blinking rapidly.

Table 2. Power light status and description

Light status	Power state	Battery charge level
White (solid on)	Powered on	21%–100%
White (blinking rapidly)	Powered on	1%–20%
White (blinking slowly)	In sleep mode	/
Off	Powered off or in hibernation mode	/

## Power button

Press the power button to turn on your PC.

**Note:** By default, on a Windows PC, pressing the power button when the PC is turned on will put the PC into sleep mode.

## Speakers

The speakers are the PC's built-in sound output devices.

## Keyboard

The keyboard is the PC's built-in input device for typing characters. It also includes keys that can make you more productive when interacting with the PC, apps, and the Windows operating system.

*Table 3. Productivity keys*

Key	Location on the keyboard	Function
Function keys (F1 through F12)	In the top row	Executing predefined commands or functions for selected apps
Hotkeys	In the top row	<ul style="list-style-type: none"><li>Changing some of the PC's frequently used settings</li><li>Opening an app or a Windows gadget</li></ul>
Fn key	In the lower-left corner	<ul style="list-style-type: none"><li>Toggling the functions of dual-function keys</li><li>Used with several letter keys to change some of the PC's frequently used settings</li></ul>
Windows key	In the lower-left corner	Used with certain keys to change some frequently used Windows settings

Hotkeys share keys with function keys. To toggle the functions for these keys, hold down the Fn key or turn on the FnLock switch.

**Note:** Keyboard layout varies by language and geographical location. The keyboard on your PC may look slightly different from the product illustrations of this publication.

### Related topics

["Hotkeys" on page 18](#)

[Appendix A "Function descriptions for Lenovo hotkeys" on page 33](#)

## Touchpad

The touchpad is the PC's built-in pointing device, which provides the basic functionality of an external mouse. Slide your finger on the touchpad to move the pointer on the screen and tap or double-tap to select or execute a screen item.

The touchpad also supports Windows multi-finger gestures, which provide shortcuts to frequently used apps and functions.

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## Left



Figure 3. Left view

No.	Description
1	Multi-purpose USB Type-C® connector
2	Charging light
3	HDMI™ connector
4	Multi-purpose USB Type-C connector
5	Combo audio jack

## Multi-purpose USB Type-C connector

This USB Type-C connector is the PC's power input connector. Use the included power adapter and this connector to supply power to the PC.

When this connector is not used by the included power adapter, it can also be used to connect:

- Storage or peripheral devices that follow the universal serial bus (USB) specification for data transfer and device interconnection
- Display devices

**Note:** When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device.

## Charging light

The charging light indicates whether the PC is plugged into an electrical outlet. When the PC is plugged into an electrical outlet, the color of the light indicates whether the battery is fully charged (or will shortly be fully charged).

Table 4. Charging light statuses and descriptions

Light status	Plugged in?	Battery charge level
Off	No	/
On, amber	Yes	1%–90%
On, white	Yes	91%–100%

## HDMI connector

The HDMI connector is used to connect an external display device, such as a television, a projector, or a monitor.

## **Multi-purpose USB Type-C connector**

This multi-purpose USB Type-C connector is used to connect:

- Storage or peripheral devices that follow the USB specification for data transfer and device interconnection
- Display devices

**Note:** When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device.

## **Combo audio jack**

The combo audio jack is used to connect single-plug headsets, headphones, or external speakers.

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## Right

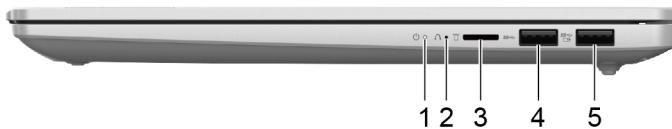


Figure 4. Right view

No.	Description
1	Power light
2	Novo button hole
3	microSD card slot
4	USB Standard-A connector
5	USB Standard-A connector (always-on connector)

## Power light

The power light indicates the current power state of the PC: whether it is powered on, powered off, in sleep mode, or in hibernation mode.

When the PC is powered on, this light can also indicate low battery by blinking rapidly.

Table 5. Power light status and description

Light status	Power state	Battery charge level
White (solid on)	Powered on	21%–100%
White (blinking rapidly)	Powered on	1%–20%
White (blinking slowly)	In sleep mode	/
Off	Powered off or in hibernation mode	/

## Novo button hole

When the PC is powered off, you can press the Novo button to display the Novo button menu. From the menu, you can then choose to:

- Open the firmware setup utility
- Display the boot device selection menu
- Display the Windows advanced startup options page

**Note:** The Novo button is rarely used during normal PC operations. To prevent users from accidentally pressing it, the Novo button is placed in a recessed hole. You can use a straightened paper clip to press this button.

## **microSD card slot**

The microSD card slot is used to insert a microSD, microSDHC, or microSDXC memory card to transfer data between the memory card and your PC.

## **USB Standard-A connector**

The USB Standard-A connector is used to connect storage or peripheral devices that follow the USB specification for data transfer and device interconnection.

## **Always-on connector**

A USB connector with a battery icon (⎓) supports the always-on function. The PC can supply power to a USB device connected to this type of connector even when the PC is powered off, in sleep mode, or in hibernation mode.

The always-on function can be turned on and off in:

- The PC's firmware setup utility, or
- Lenovo Vantage or Lenovo PC Manager

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## Bottom

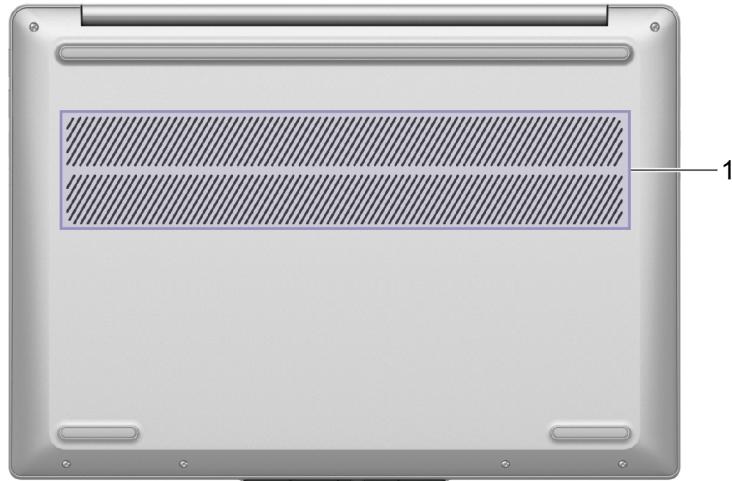


Figure 5. Bottom view

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No.	Description
1	Air vents (intake)

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### Air vents (intake)

The air vents allow air to be sucked inside of the PC to cool the internal components.

**Important:** When the PC is operating, do not place it on a bed, sofa, carpet, or other flexible surfaces. Otherwise, the air vents will be blocked and the PC may overheat, reducing performance or causing the PC to be unresponsive or even shut down.

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## Features and specifications

### Dimensions

Width	312 mm (12.3 inches)
Depth	221 mm (8.7 inches)
Thickness	<ul style="list-style-type: none"><li>• Thinnest: 16.9 mm (0.7 inches)</li><li>• Thickest: 17.9 mm (0.7 inches)</li></ul>

### ac power adapter

Input	100 V ac–240 V ac, 50 Hz–60 Hz
Output	20 V dc, 3.25 A
Power	65 W

### Battery pack

Capacity	57 Wh <b>Note:</b> The battery capacity is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).
Number of cells	3

### Microprocessor

To view the microprocessor information of your computer, type system information in the Windows search box and then press Enter.

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### Memory

Type	On board low power double data rate 5x (LPDDR5x)
Number of physical slots	0

### Mass storage device

Type	Solid-state drive
Slot type	M.2 (2242)
Interface	PCIe Gen4

### Screen

Size	355.6 mm
Display resolution	1920 × 1200 pixels (WUXGA model)

## Keyboard

Backlight* color	White
Shortcut keys	<ul style="list-style-type: none"> <li>Function keys</li> <li>Hotkeys</li> </ul>
Modifier keys	<ul style="list-style-type: none"> <li>Alt key</li> <li>Ctrl key</li> <li>Shift key</li> <li>Windows key</li> <li>Fn key</li> </ul>

## Connectors and slots

USB Standard-A connector	<ul style="list-style-type: none"> <li>Quantity: 2</li> <li>Maximum power output: <ul style="list-style-type: none"> <li>– 5 V, 0.9 A</li> <li>– 5 V, 2 A (for always-on connector)</li> </ul> </li> <li>Supported signaling protocols: <ul style="list-style-type: none"> <li>– USB 2.0 480 Mbps</li> <li>– SuperSpeed USB 5 Gbps</li> </ul> </li> </ul>
Multi-purpose USB Type-C connector	<ul style="list-style-type: none"> <li>Quantity: 2</li> <li>Maximum power output: 5 V, 3 A</li> <li>Maximum power input: 65 W</li> <li>Supported signaling protocols: <ul style="list-style-type: none"> <li>– USB 2.0 480 Mbps</li> <li>– SuperSpeed USB 5 Gbps</li> <li>– DisplayPort™ Alt Mode (DisplayPort 1.4 compliant) <ul style="list-style-type: none"> <li>Maximum output resolution: 4K @ 60 Hz</li> </ul> </li> <li>– USB Power Delivery</li> </ul> </li> </ul> <p><b>Note:</b> Data rates and performance ratings are dependent on connected devices and cables if they are used. For DisplayPort connection through a USB Type-C connector, the listed maximum output capacity is only available on external displays with a DisplayPort, a Mini DisplayPort, or a USB Type-C connector that supports DisplayPort Alternate Mode. For connections using a converter or an adapter, the actual output resolution may be lower.</p>
HDMI connector	<ul style="list-style-type: none"> <li>Supported signaling protocol: Transition minimized differential signaling (TMDS)</li> <li>Maximum output resolution: 3840 × 2400 @ 60 Hz</li> </ul>
Memory card slot	Supported card type: microSD card
Combo audio jack	<ul style="list-style-type: none"> <li>Diameter: 3.5 mm</li> <li>Supported plugs: <ul style="list-style-type: none"> <li>– 3-pole, TRS</li> <li>– 4-pole, TRRS (CTIA and OMTP)</li> </ul> </li> </ul>

## Security

UEFI/BIOS passwords	<ul style="list-style-type: none"><li>Administrator password</li><li>User password</li><li>Master hard disk password</li><li>User hard disk password</li></ul>
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## Network

Wi-Fi	<ul style="list-style-type: none"><li>Wi-Fi 6E, or</li><li>Wi-Fi 7</li></ul>
Bluetooth	Bluetooth 5.2

\* for selected models

## Statement on USB transfer rate

Depending on many factors such as the processing capability of the host and 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 will be slower than the data rate listed below for each corresponding device.

USB device	Data rate (Gbit/s)
USB 3.2 Gen 1	5

## Operating environment

### Maximum altitude (without pressurization)

3048 m (10 000 ft)

### Temperature

- At altitudes up to 2438 m (8000 ft)
  - Operating: 5°C to 35°C (41°F to 95°F)
  - Storage: 5°C to 43°C (41°F to 109°F)
- At altitudes above 2438 m (8000 ft)
  - Maximum temperature when operating under the unpressurized condition: 31.3°C (88°F)

**Note:** When you charge the battery, its temperature must be no lower than 10°C (50°F).

### Relative humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

## Avoid constant body contact with specific hot sections

### CAUTION:

When the computer is operating, it should be placed on a hard and flat surface with its bottom area not in contact with user's bare skin. Under normal operating conditions, the temperature of the

**bottom surface will remain within an acceptable range as defined in IEC 62368-1, but such temperatures can still be high enough to cause discomfort or harm to the user if directly touched for over 10s at a time. As such, it is recommended that users avoid prolonged direct contact with the bottom of the computer.**



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## Chapter 2. Get started with your computer

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### Connect to a network

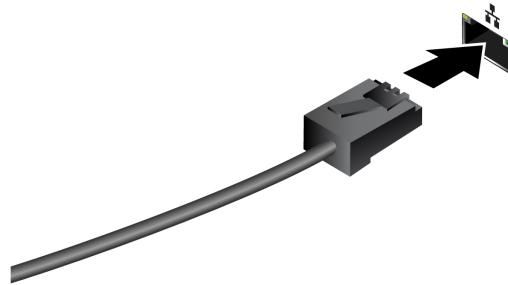
#### Connect to a Wi-Fi network

Ensure that you have a secure Wi-Fi network account and the required credentials.

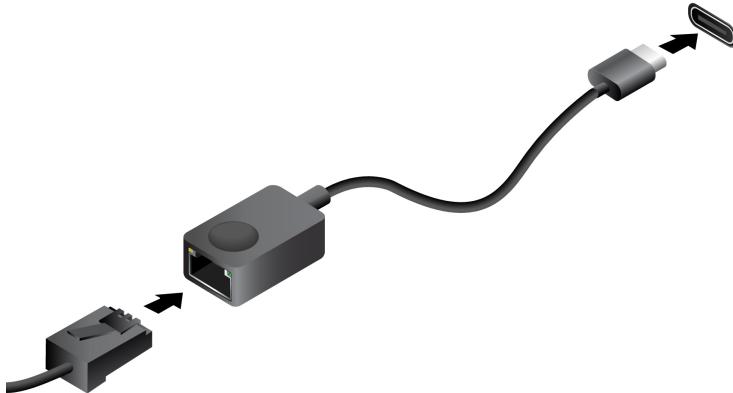
- Step 1. Select the network icon  on the bottom right of your display.
- Step 2. Select an available network, and then select **Connect**. If you want to be automatically connected to this Wi-Fi network the next time you start your computer, select **Connect automatically** before selecting **Connect**.
- Step 3. Input your credentials if necessary, and then follow the on-screen instructions to connect to the desired Wi-Fi network.

#### Establish a wired connection

- Step 1. Plug an Ethernet cable into the Ethernet connector on your computer.
- Step 2. Plug the other end of the Ethernet cable into a network wall jack or a router.



**Note:** If your computer does not include an Ethernet connector, you can purchase a USB-C to Ethernet adapter from Lenovo at <https://www.lenovo.com/accessories>.



## Work with Windows

The following table contains Windows frequently used settings. You can learn the basics and start working with Windows right away.

To configure settings, type the corresponding keywords in the Windows search box and select the best match. Follow the on-screen instructions to customize settings.

Table 6. Basic settings

Functions	Descriptions	Search by keywords
Control Panel	View or change Windows settings, including hardware and software setup and configuration.	Control Panel
Connect to Wi-Fi networks	For models with a wireless LAN module, you can connect your computer to a Wi-Fi network. Click the network icon in the Windows notification area, and then select a network for connection. <b>Note:</b> The wireless LAN module on your computer may support different standards. For some countries or regions, use of 802.11ax may be disabled according to local regulations.	Wi-Fi
Connect to wired networks	For models with an Ethernet connector, you can use an Ethernet cable to connect your computer to a wired network.	Ethernet
Airplane mode	Airplane mode is a convenient setting to turn all wireless communications of your computer on and off. You may need to turn it on when boarding an airplane.	Airplane mode
Night light mode	Night light is a switch in Windows that you can turn on and off. When it is turned on, your screen shows warmer colors and the amount of emitted blue light is reduced. Enabling night light reduces the chances of developing eye fatigue or eye strain. <b>Note:</b> For more guidance on reducing eye fatigue or eye strain, go to <a href="https://www.lenovo.com/us/en/compliance/visual-fatigue">https://www.lenovo.com/us/en/compliance/visual-fatigue</a> .	Night light
Adjust color temperature	If night light mode is turned on, you can adjust the color temperature of the screen. <b>Note:</b> Selected Lenovo computers are low blue light certified using night light mode and color temperature settings available in the pre-installed operating system. These computers are tested with night light turned on and color temperature set to 48 or greater.	Night light
Windows Update	Microsoft periodically releases feature and security updates to the Windows operating system. Updates that are applicable to your Windows version are downloaded automatically when your computer is connected to the Internet. When updates are downloaded, you are prompted to restart the computer to install these updates. You can also manually check if there are available updates for the installed version of Windows. <b>Attention:</b> Only use Windows Update to download and install updates. Updates downloaded from other sources may include security risks.	Windows Update

Table 7. Optional settings

Functions	Descriptions	Search by keywords
Set up face recognition	For models with a Windows Hello-compatible infrared camera, you can set up face recognition to sign in with your face.	Sign-in options

## Windows help information

If the on-screen instructions cannot solve your problem, refer to the following to get the online Windows help information.

- Type Get Help or Tips in the Windows search box and then press Enter. When the app opens, type the problem description and select the matched result.
- Visit Microsoft Support Web site: <https://support.microsoft.com>. Enter what you are looking for in the search box and get search results.

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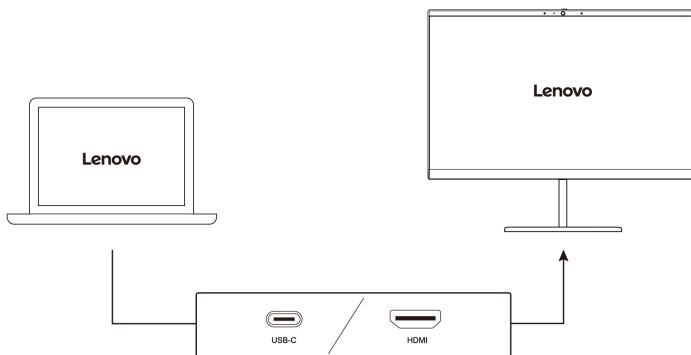
## Interact with your computer

### Connect to an external display

#### Connect to a wired display

Connect your computer to the desired display with an appropriate cable.

- Step 1. Connect one end of the display cable to the HDMI connector or a multi-purpose USB Type-C connector on your computer.
- Step 2. Connect the other end of the cable to the display.



#### Connect to a wireless display

Ensure that:

- Both your computer and the display support Miracast® technology.
- The display is connected to the same Wi-Fi network as your computer and is discoverable.

- Step 1. Press Windows key + K.  
The computer searches for wireless display devices and audio devices and lists the results.
- Step 2. Select the display you want to connect to, and then follow the on-screen instructions.

#### Change display settings

- Step 1. Right-click on a blank area on the desktop, and then select **Display settings**.  
Your computer shows the **Display** window.

- Step 2. Select the display for which you want to change the settings.
- Step 3. Change the display settings as necessary.

## Set the display mode

Step 1. Press  or Fn + .

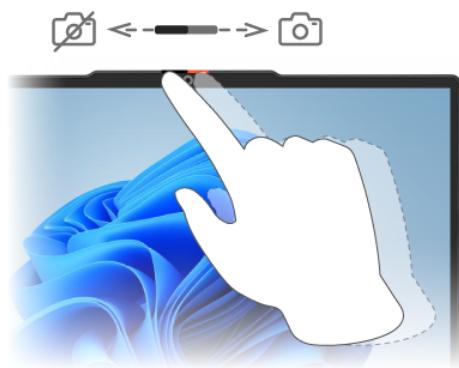
Your computer shows a list of display modes, with the current mode highlighted.

Step 2. Select a display mode from the list.

## Protect your privacy using the camera shutter

The camera shutter is a mechanical component that prevents any attempt from capturing your image, thus protecting your privacy. To cover the camera lens, slide the camera shutter to the left. When you want to use the camera, slide the camera shutter to the right.

If you slide the camera shutter to the left during a video call, people on the video call will not be able to see you. If you slide the camera shutter back to the right, they will be able to see you again.



## Hotkeys

Look at the top row of the keyboard of your Lenovo computer and you'll find keys with printed icons. These keys are called hotkeys and they provide shortcuts to functions that you'll use frequently. The function that each hotkey provides is denoted by the icon printed on the key.

Hotkeys share keys with function keys (F1–F12) and other keys. Depending on the FnLock setting, you use hotkey functions by pressing the key directly or in combination with the Fn key.

**Note:** The FnLock switch does not apply to hotkeys not found in the first row of the keyboard. To use these hotkeys, always hold down the Fn key while pressing the key.



Figure 6. Location of the Fn key

## Related topics

## The FnLock switch

The FnLock is an electronic switch that affects how you use hotkey functions. To turn it on and off, press Fn + Esc.

**Note:** The Esc key is in the upper left corner of the keyboard. It has an LED that indicates the status of the FnLock switch.



Figure 7. Locations of the FnLock key and the Fn key

A Lenovo keyboard usually contains hotkeys in the top row. These hotkeys share keys with the function keys (F1–F12) and other keys. For these dual-function keys, the icons or characters denoting the primary functions are printed on top of the icons or characters denoting the secondary functions.

- A: an icon or character denoting the primary function
- B: an icon or character denoting the secondary function

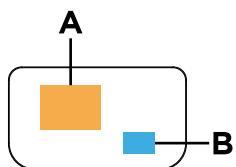


Figure 8. The layout of a dual-function key

Table 8. FnLock and dual-function keys

FnLock (Esc) LED	FnLock status	Pressing the hotkey alone	Pressing the hotkey while holding down the Fn key
Off	Disabled	Primary function	Secondary function
On	Enabled	Secondary function	Primary function

## The Copilot key

The era of AI has arrived, and many Lenovo PCs now include a Copilot key on the keyboard. It is located either in the bottom or the top row of the keyboard and is marked with .

For Windows PCs with Copilot in Windows available and enabled, pressing the Copilot key opens Copilot in Windows. If Copilot in Windows is not available or is disabled, pressing the Copilot key opens the Recall app.

**Note:** If both Copilot in Windows and Recall are disabled, pressing the Copilot key opens Windows search.

## Dual-function keys without printed icons

Some dual-function keys share keys with letter keys and numeric keys. Such keys do not have a dedicated printed icon. The following table lists the hidden functions of these keys.

Key combination	Hidden function
Fn + M	Enables/disables the touchpad
Fn + N	Shows device information.
Fn + Q	Switches among different operation modes.

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## Chapter 3. Explore your computer

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### Manage power

Use the information in this section to achieve the best balance between performance and power efficiency.

### Rechargeable battery pack

Your computer includes a built-in, rechargeable battery pack that makes mobile computing a reality. When the computer is plugged into an electrical outlet, the battery charges. If you use the computer when you don't have access to an electrical outlet, the battery discharges to supply electricity that the computer system requires for operation.

You can charge the battery any time you want. The battery packs of Lenovo computers support multiple charging modes that are suitable for different power usage habits. You can switch the battery's active charging mode in Lenovo Vantage or Lenovo PC Manager.

Battery charging is also affected by its temperature. The recommended temperature range for charging the battery is between 10°C (50°F) and 35°C (95°F).

**Note:**

You can check the battery temperature in Lenovo Vantage.

To maximize the life of the battery, once the battery is fully charged, it must discharge to 94% or lower before it will be allowed to recharge again.

#### Normal mode

Normal mode is the most basic charging mode. In normal mode, it typically takes 2 to 4 hours for the battery to charge from 0% to 100%.

#### Rapid charge mode

If you want the battery to be charged faster than in normal mode, switch the battery charging to rapid charge mode. The following table lists the typical time needed for batteries in rapid charge mode to be charged to 80% and 100% respectively.

*Table 9. Reference charge time for batteries in rapid charge mode*

Mode	Time needed to charge from 0% to 80%	Time needed to charge from 0% to 100%
Rapid charge	Less than 1 hour	Less than 2 hours

#### Conservation mode

If your computer is constantly plugged into an electrical outlet, consider switching the battery charging to conservation mode. In conservation mode, the battery will not be fully charged. Instead, the battery's charge will be kept within 75%–80%. This is beneficial to the long-term health of the battery.

**Note:** If you want the battery to be fully charged before bringing the computer to work, disable conservation mode by switching the battery charging to normal or rapid charge mode.

#### Overnight battery charging mode

Some people follow a regular pattern when using their computers. They finish their workday with the computer at a low battery charge level. They plug in their computers at night and need the battery to be fully

charged the next morning so they can unplug the computer and bring it to work. These activities happen at approximately the same time each day. If this sounds like you, consider enabling overnight battery charging mode for the battery.

Overnight battery charging mode affects battery charging during the night hours, the time when you're usually asleep. When it is enabled, the computer regularly adapts its charging behavior based on observation of when you plug in the computer at night and unplug it in the morning. During the nighttime, the battery is charged to a particular range and is kept within that range for an extended period, before being further charged to 100%. Overnight battery charging mode ensures safe charging during the night and is beneficial to the long-term health of the battery.

**Note:** With overnight battery charging mode enabled, if you break your routine one day by unplugging the computer much earlier than usual in the morning, you may find that the battery is not fully charged.

If the battery pack of your computer supports overnight battery charging mode, it can be enabled in Lenovo Vantage or Lenovo PC Manager.

## Recover full battery capacity

If your computer is constantly plugged in to an electrical outlet and the battery rarely discharges, the battery may not be charged to its full capacity even if the battery meter reports 100% charge. You can recover the battery's full charging potential simply by discharging and re-charging the battery.

- Step 1. Unplug the computer and use it until the battery charge drops below 20%.
- Step 2. Plug in the computer and charge the battery to 100%.

## Set power button behavior

By default, pressing the power button puts the computer to sleep mode. However, you can change the power button behavior in Windows Control Panel.

- Step 1. Type Control Panel in the Windows search box and then press Enter. Open the control panel and view by large or small icons.
- Step 2. Select the power options and then click to choose what the power button does.

## A power plan

A power plan is a collection of power-saving settings made available by an operating system. With a power plan, you can set idle time-outs for different hardware components to enter a low-power state. The default power plan and some of its idle time-out settings are listed below for computer models pre-installed with Windows.

The listed settings are active when the computer is connected to an electrical outlet. If your computer includes a built-in battery pack, a different collection of time-out settings is set to take effect when the computer is operating on battery power.

- Default power plan: Balanced
- Turn off the display: after 5 minutes
- Put the computer to sleep: after 5 minutes

**Note:** To wake the computer from the sleep state, press the power button or any key on the keyboard.

## Change or customize a power plan

This operation is applicable to computers with pre-installed Windows.

Step 1. Type power plan in the Windows search box and then press Enter.

Step 2. Customize a power plan of your preference.

## Switch the PC's active power mode

The Windows operating system provides three preset power modes for easy management of the PC's power usage. You can switch the PC's active power mode according to your preferences for using your PC.

Step 1. Select **Settings** → **System** → **Power & battery**.

Step 2. Under **Power mode**, choose a power mode that best match your current pattern of PC usage. If your PC is plugged in and you want the best performance, select **Best Performance**. If your PC is running on battery power and you want it to last as long as possible, select **Best Power efficiency**.

**Note:** You can also use the keyboard shortcut fn + Q to quickly and easily switch the active power mode.

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## Change settings in UEFI/BIOS setup utility

This section introduces what UEFI/BIOS is and the operations you can perform in its setup utility.

### What is UEFI/BIOS setup utility

UEFI/BIOS is the first program that runs when a computer starts. UEFI/BIOS initializes hardware components and loads the operating system and other programs. Your computer may include a setup program (setup utility) with which you can change certain UEFI/BIOS settings.

### Open the UEFI/BIOS setup utility

Step 1. Turn on or restart the computer.

Step 2. When the Lenovo logo appears on the screen, press F2 repeatedly. Or enter **Novo Button** menu.

Step 3. Select UEFI/BIOS Setup.

### Select boot devices

Normally, the computer starts with a boot manager loaded from the secondary storage device of the computer. Occasionally, you may need to start the computer with a program or boot manager loaded from another device or a network location. After the system firmware initializes all devices, you can press an interruption key to display the boot menu and select a desired boot device.

Step 1. Turn on or restart the computer.

Step 2. Press F12.

Step 3. From the boot device menu, select a boot device to start the computer.

You can make a permanent change on boot devices in the UEFI/BIOS setup utility. Select the **Boot** menu; in the **EFI** section, select the desired boot device and move it to the top of the device list. Save changes and exit the setup utility for the change to take effect.

### Change hotkey mode

Step 1. Open the UEFI/BIOS setup utility.

Step 2. Select **Configuration** → **Hotkey Mode** and press Enter.

Step 3. Change the setting to **Disabled** or **Enabled**.

Step 4. Select **Exit → Exit Saving Changes**.

## Enable or disable always-on

For some Lenovo computers with always-on connectors, the always-on function can be enabled or disabled in the UEFI/BIOS setup utility.

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Configuration → Always On USB** and press Enter.
- Step 3. Change the setting to **Disabled** or **Enabled**.
- Step 4. Select **Exit → Exit Saving Changes**.

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## Set passwords in UEFI/BIOS setup utility

This section introduces the types of passwords that you can set in the UEFI (Unified Extensible Firmware Interface) or BIOS (Basic Input/Output System) setup utility.

### Password types

You can set various types of passwords in the UEFI/BIOS setup utility.

Password type	Pre-requisite	Usage
Administrator password	No	You must enter it to start the setup utility.
User password	The administrator password must be set.	You can use the user password to start the setup utility.
Master hard disk password	No	You must enter it to start the operating system.
User hard disk password	The master hard disk password must be set.	You can use the user hard disk password to start the operating system.

#### Notes:

- All passwords set in the setup utility consist of alphanumeric characters only.
- If you start the setup utility using the user password, you can only change a few settings.

## Set administrator password

You set the administrator password to prevent unauthorized access to the UEFI/BIOS setup utility.

**Attention:** If you forget the administrator password, a Lenovo authorized service personnel cannot reset your password. You must take your computer to a Lenovo authorized service personnel to have the system board replaced. Proof of purchase is required and a fee will be charged for parts and service.

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Security → Set Administrator Password** and press Enter.
- Step 3. Enter a password string that contains only letters and numbers and then press Enter.
- Step 4. Enter the password again and press Enter.
- Step 5. Select **Exit → Exit Saving Changes**.

Next time you start the computer, you must enter the administrator password to open the setup utility. If **Power on Password** is enabled, you must enter the administrator password or the user password to start the computer.

## Change or remove administrator password

Only the administrator can change or remove the administrator password.

- Step 1. Open the UEFI/BIOS setup utility using the administrator password.
- Step 2. Select **Security** → **Set Administrator Password** and press Enter.
- Step 3. Enter the current password.
- Step 4. In the **Enter New Password** text box, enter the new password.
- Step 5. In the **Confirm New Password** text box, enter the new password again.

**Note:** If you want to remove the password, press Enter in both text boxes without entering any character.

- Step 6. Select **Exit** → **Exit Saving Changes**.

If you remove the administrator password, the user password is also removed.

## Set user password

You must set the administrator password before you can set the user password.

The administrator of the setup utility might need to set a user password for use by others.

- Step 1. Open the UEFI/BIOS setup utility using the administrator password.
- Step 2. Select **Security** → **Set User Password** and press Enter.
- Step 3. Enter a password string that contains only letters and numbers and then press Enter.  
The user password must be different from the administrator password.
- Step 4. Enter the password again and press Enter.
- Step 5. Select **Exit** → **Exit Saving Changes**.

## Enable power-on password

If the administrator password has been set, you can enable the power-on password to enforce greater security.

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Security** → **Power on Password** and press Enter.

**Note:** The administrator password must be set in advance.

- Step 3. Change the setting to **Enabled**.
- Step 4. Select **Exit** → **Exit Saving Changes**.

If the power-on password is enabled, a prompt appears on the screen every time you turn on the computer. You must enter the administrator or user password to start the computer.

## Set hard disk password

You can set a hard disk password in the setup utility to prevent unauthorized access to your data.

**Attention:** Be extremely careful when setting a hard disk password. If you forget the hard disk password, a Lenovo authorized service personnel cannot reset your password or recover data from the hard disk. You must take your computer to a Lenovo authorized service personnel to have the hard disk drive replaced. Proof of purchase is required and a fee will be charged for parts and service.

Step 1. Open the UEFI/BIOS setup utility using the administrator password.

Step 2. Select **Security** → **Set Hard Disk Password** and press Enter.

**Note:** If you start the setup utility using the user password, you cannot set the hard disk password.

Step 3. Follow on-screen instructions to set both master and user hard disk passwords.

**Note:** The master and user hard disk passwords must be set at the same time.

Step 4. Select **Exit** → **Exit Saving Changes**.

If the hard disk password is set, you must provide the correct password to start the operating system.

## Change or remove hard disk password

Step 1. Open the UEFI/BIOS setup utility.

Step 2. Select **Security**.

Step 3. Change or remove the hard disk password.

To change or remove the master password, select **Change Master Password** and press Enter.

**Note:** If you remove the master hard disk password, the user hard disk password is also removed.

To change the user hard disk password, select **Change User Password** and press Enter.

**Note:** The user hard disk password cannot be removed separately.

Step 4. Select **Exit** → **Exit Saving Changes**.

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## Chapter 4. Help and support

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### Frequently asked questions

#### How do I partition my storage drive

Refer to <https://support.lenovo.com/solutions/ht503851>.

#### I pressed the Copilot key on my keyboard, but neither Copilot in Windows nor Windows Search opened. What could be the potential cause?

Your Windows operating system version is not up to date and does not include the necessary software components. Update your Windows operating system to version 23H2 or later using Windows Update and then try again.

**Note:** The Version 23H2 update may not be immediately available for your PC. You may need to periodically open Windows Update and manually check for updates to install the 23H2 update when it becomes available for your PC.

#### What should I do if my computer stops responding

Press and hold the power button until the computer turns off. Then restart the computer.

#### What should I do if I spill liquid on the computer

1. Carefully unplug the ac power adapter and turn off the computer immediately. The more quickly you stop the current from passing through the computer the more likely you will reduce damage from short circuits.

**Attention:** Although you might lose some data or work by turning off the computer immediately, leaving the computer on might make your computer unusable.

2. Wait until you are certain that all the liquid is dry before turning on your computer.

**CAUTION:**

**Do not try to drain out the liquid by turning over the computer. If your computer has keyboard drainage holes on the bottom, the liquid will be drained out through the holes.**

#### Where can I get the latest device drivers and UEFI/BIOS

- Lenovo Vantage or Lenovo PC Manager
- Lenovo Support Web site at <https://support.lenovo.com>.

#### Why does my computer start automatically when I open the lid

Your computer may have Flip to Start enabled. Many Lenovo notebook computers include a sensor that can detect the angle at which the lid is opened. When you open the lid, the sensor can detect this behavior. If Flip to Start is enabled, the computer will respond by starting up automatically.

If you don't like this feature, you can disable it. Flip to Start can be enabled and disabled in:

- Lenovo Vantage or Lenovo PC Manager

- Firmware Setup Utility

## Self-help resources

Use the following self-help resources to learn more about the computer and troubleshoot problems.

Resources	How to access?
Troubleshooting and frequently asked questions	<ul style="list-style-type: none"> <li>• <a href="https://www.lenovo.com/tips">https://www.lenovo.com/tips</a></li> <li>• <a href="https://forums.lenovo.com">https://forums.lenovo.com</a></li> </ul>
Accessibility information	<a href="https://www.lenovo.com/accessibility">https://www.lenovo.com/accessibility</a>
Reset or restore Windows	<ul style="list-style-type: none"> <li>• Use Lenovo recovery options.             <ol style="list-style-type: none"> <li>1. Go to <a href="https://support.lenovo.com/HowToCreateLenovoRecovery">https://support.lenovo.com/HowToCreateLenovoRecovery</a>.</li> <li>2. Follow the on-screen instructions.</li> </ol> </li> <li>• Use Windows recovery options.             <ol style="list-style-type: none"> <li>1. Go to <a href="https://pcsupport.lenovo.com">https://pcsupport.lenovo.com</a>.</li> <li>2. Detect your computer or manually select your computer model.</li> <li>3. Click <b>Troubleshoot &amp; Diagnose</b> → <b>Custom Troubleshooting</b> → <b>Operating System Diagnostics</b> and then follow the on-screen instructions.</li> </ol> </li> </ul>
Use Lenovo Vantage or Lenovo PC Manager to:	
<ul style="list-style-type: none"> <li>• Download and install the latest drivers and firmware.</li> <li>• Configure hardware settings.</li> <li>• Diagnose computer hardware problems.</li> <li>• Check the computer warranty status.</li> </ul>	Use Windows Search.
Product documentation:	<ul style="list-style-type: none"> <li>• <a href="#">Generic Safety and Compliance Notices</a></li> <li>• <a href="#">Safety and Warranty Guide</a></li> <li>• <a href="#">Setup Guide</a></li> <li>• <a href="#">This User Guide</a></li> <li>• <a href="#">Regulatory Notice</a></li> </ul> <ol style="list-style-type: none"> <li>1. Go to <a href="https://support.lenovo.com">https://support.lenovo.com</a>.</li> <li>2. Detect your computer or select your computer model manually.</li> <li>3. Select <b>Guides &amp; Manuals</b> and filter out the documentation you want.</li> </ol>
Lenovo Support Web site with the latest support information on the following:	
<ul style="list-style-type: none"> <li>• Drivers and software</li> <li>• Diagnostic solutions</li> <li>• Product and service warranty</li> <li>• Product and parts details</li> <li>• Knowledge base and frequently asked questions</li> </ul>	Visit <a href="https://support.lenovo.com">https://support.lenovo.com</a> .
Windows help information	<ul style="list-style-type: none"> <li>• Use <b>Get Help or Tips</b>.</li> <li>• Use Windows Search.</li> <li>• Microsoft Support Web site: <a href="https://support.microsoft.com">https://support.microsoft.com</a></li> </ul>

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## What is a CRU?

Customer replaceable units (CRUs) are parts that can be replaced by the customer. A Lenovo computer may contain the following types of CRUs:

### Self-service CRU

Parts that can be replaced easily by customers themselves or by trained service technicians at an additional cost.

### Optional-service CRU

Parts that can be replaced by customers with a greater skill level. Trained service technicians can also provide service to replace the parts under the type of warranty designated for the customer's machine.

If you intend to install a CRU, Lenovo will ship the CRU to you. You might be required to return the defective part that is replaced by the CRU. When a return is required: (1) return instructions, a prepaid shipping label, and a container will be included with the replacement CRU; and (2) you might be charged for the replacement CRU if Lenovo does not receive the defective CRU within thirty (30) days of your receipt of the replacement CRU. For full details, see the *Lenovo Limited Warranty* at [https://www.lenovo.com/warranty/llw\\_02](https://www.lenovo.com/warranty/llw_02).

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## CRUs for your product model

The table below lists the CRUs and CRU types that are defined for your product model.

Part	Self-service CRU	Optional-service CRU
Power cord	X	
ac power adapter	X	

### Notes:

- CRU replacement instruction is provided in one or more of the following publications and is available from Lenovo at any time upon your request.
  - the product *User Guide*
  - the printed publications that come with the product
- Replacement of any parts not listed above, including the built-in rechargeable battery, must be done by a Lenovo-authorized repair facility or technician. Go to <https://support.lenovo.com/partnerlocation> for more information.

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## Call Lenovo

If you have tried to correct the problem yourself and still need help, you can call Lenovo Customer Support Center.

## Before you contact Lenovo

Record product information and problem details before you contact Lenovo.

Product information	Problem symptoms and details
<ul style="list-style-type: none"><li>• Product name</li><li>• Machine type and serial number</li></ul>	<ul style="list-style-type: none"><li>• What is the problem? Is it continuous or intermittent?</li><li>• Any error message or error code?</li><li>• What operating system are you using? Which version?</li><li>• Which software applications were running at the time of the problem?</li><li>• Can the problem be reproduced? If so, how?</li></ul>

**Note:** The product name and serial number can usually be found on the bottom of the computer, either printed on a label or etched on the cover.

## Lenovo Customer Support Center

During the warranty period, you can call Lenovo Customer Support Center for help.

### Telephone numbers

For a list of the Lenovo Support phone numbers for your country or region, go to <https://pcsupport.lenovo.com/supportphonelist>.

**Note:** Phone numbers are subject to change without notice. If the number for your country or region is not provided, contact your Lenovo reseller or Lenovo marketing representative.

### Services available during the warranty period

- Problem determination - Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair - If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.
- Engineering change management - Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) that apply to your hardware available.

### Services not covered

- Replacement or use of parts not manufactured for or by Lenovo or non-warranted parts
- Identification of software problem sources
- Configuration of UEFI/BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of programs

For the terms and conditions of the Lenovo Limited Warranty that apply to your Lenovo hardware product, see "Warranty information" in the *Safety and Warranty Guide* that comes with your computer.

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## Purchase additional services

During and after the warranty period, you can purchase additional services from Lenovo at <https://pcsupport.lenovo.com/warrantyupgrade>.

Service availability and service name might vary by country or region.



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## Appendix A. Function descriptions for Lenovo hotkeys

Hotkey functions are denoted by the icons printed on the keys. The following table describes the functions of all Lenovo hotkeys. The keyboard of your Lenovo computer should only support a subset of the listed hotkeys.

Table 10. Hotkey icons and denoted functions

Hotkey icon	Function description
🔇	Mutes/Unmutes sound.
🔊+	Increases volume.
🔊-	Decreases volume.
🎙	Enables/Disables the microphone.
☀️+	Increases screen brightness.
☀️-	Decreases screen brightness.
▢️	Selects and sets up display devices.
✈️	Enables/Disables airplane mode. (Windows operating systems)
⭐️	Displays the Lenovo Smart Key quick launch panel.
☒	Enables/Disables the touchpad.
◻◻◻	Displays all open apps as thumbnails. (Windows operating systems)
-Calculator	Opens the Calculator app. (Windows operating systems)
✂️	Opens the Snipping tool. (Windows operating systems)
⚙️	Opens the Settings app. (Windows operating systems)
🔒	Locks the screen. (Windows operating systems)
📋	Opens the clipboard history. (Windows operating systems)
🌙	Puts the computer to sleep.
▤	Opens the context menu of the current active app.
🎙️	Opens an associated voice app or voice service.
💡	Adjusts the keyboard backlight.
💡+	Increases the brightness of the keyboard backlight.
💡-	Decreases the brightness of the keyboard backlight.
📞	Answers an incoming Microsoft Teams call.
📞	Rejects an incoming Microsoft Teams call.
👤	Accesses Lenovo Support resources.
▶️/⏸️	Starts/Pauses audio or video playback.
⏹️	Stops audio or video playback.
◀️	Plays the previous audio or video in the playlist.

Table 10. Hotkey icons and denoted functions (continued)

Hotkey icon	Function description
▶▶	Plays the next audio or video in the playlist.
⟳	Switches the computer's active operation mode.
▣	Blurs the background for videoconferencing.
🔇	Switches the computer's active audio mode.
🌙	Turns on/off night light mode. (Windows operating systems)

**Note:** Hotkey functions may change if the associated app or the Windows operating system is updated.

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## Appendix B. Notices and trademarks

### Notices

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