

User Guide

Lenovo
ThinkBook



Lenovo

Lenovo ThinkBook Plus G5 Hybrid Station

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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Contents

About this guide	iii
Chapter 1. Meet your Hybrid Station	
Top view	1
Smart connector	1
Keyboard	1
Touchpad	2
Left view	3
Multi-purpose USB Type-C connector	3
Charging light	3
Air vents (outlet)	3
Combo audio jack	4
Right view	5
Power light	5
Power button	5
Fingerprint sensor	5
Multi-purpose USB Type-C connector	5
Rear view	7
Guide pins	7
Air vents (intake)	7
Bottom view	8
Novo button hole	8
Air vents (intake)	8
Antennas	8
Speakers	9
Features and specifications	10
Statement on USB transfer rate	11
Operating environment	11
Laser safety information	12
Chapter 2. Get started with your Hybrid Station	
Attach and detach your Hybrid Tab	13
Use your Hybrid Station in different modes	14
Windows laptop mode	14
Android laptop mode	14
Hybrid mode	15
Base mode	16
Android tablet mode	17
Connect to a network	18
Connect to a Wi-Fi network	18
Establish a wired connection	18
Unique Lenovo apps	19
Lenovo Vantage	19
Lenovo Smart Meeting	19
Hybrid Center	20
Hybrid Folder	21
Hybrid Stream	22
The Novo Button menu	22
Open the Novo Button menu	22
Interact with your computer	23
Hotkeys	23
The Copilot key	24
Multi-touch gestures for touch-enabled screens	24
Connect to an external display	26
Enroll your fingerprints	27
Chapter 3. Explore your Hybrid Station	
Intelligent features	29
Eye care mode	29
Smart Key	29
Gesture controls	29
Super resolution	31
Smart Noise Cancelling	31
Manage power	32
Rechargeable battery pack	32
Set power button behavior	33
A power plan	33
System operation modes	34
Adjustable display refresh rate	34
Change settings in UEFI/BIOS setup utility	35
What is UEFI/BIOS setup utility	35
Open the UEFI/BIOS setup utility	35
Select boot devices	35
Change F1–F12 as Primary Function	35
Enable or disable always-on	35
Enable or disable Flip to Start	35
Set passwords in UEFI/BIOS setup utility	36
Password types	36
Set supervisor password	36
Change or remove supervisor password	36
Set user password	37
Enable power-on password	37
Set hard disk password	37
Change or remove hard disk password	38
Chapter 4. Help and support	
Frequently asked questions	39
How do I partition my storage drive	39
What should I do if my computer stops responding	39

What should I do if I spill liquid on the computer	39
Where can I get the latest device drivers and UEFI/BIOS	39
Why does my screen brightness change constantly	39
Why does my computer start automatically when I open the lid.	39
Self-help resources	40
What is a CRU?	41
CRUs for your product model	41
Call Lenovo	41
Before you contact Lenovo	42
Lenovo Customer Support Center.	42
Purchase additional services.	42
Appendix A. Function descriptions for Lenovo hotkeys	45
Appendix B. Notices and trademarks.	47

About this guide

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

Model name	Machine type (MT)
ThinkBook Plus G5 Station	21N9

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at 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. For Android operating system instructions, please go to https://download.lenovo.com/consumer/redirect/thinkbook_plus_g5_hybrid_tab.html.
- 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>.

Chapter 1. Meet your Hybrid Station

Top view



Figure 1. Lenovo ThinkBook Plus G5 Hybrid Station—top view

No.	Description
1	Smart connector
2	Keyboard
3	Touchpad

Smart connector

The smart connector is used to connect the ThinkBook Plus G5 Hybrid Tab magnetically.

Note: Please align the ThinkBook Plus G5 Hybrid Tab with the two guide pins on the left and right sides at the same time, and insert it vertically downward.

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 1. 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">• Changing some of the PC's frequently used settings• Opening an app or a Windows gadget

Table 1. Productivity keys (continued)

Key	Location on the keyboard	Function
Fn key	In the lower-left corner	<ul style="list-style-type: none">• Toggling the functions of dual-function keys• Used with several letter keys to change some of the PC's frequently used settings
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.

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.

Left view



Figure 2. Lenovo ThinkBook Plus G5 Hybrid Station—left-side view

No.	Description
1	Multi-purpose USB Type-C connector
2	Charging light
3	Air vents (outlet)
4	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.

- Thunderbolt™-enabled docks or devices

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 2. Charging light statuses and descriptions

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

Air vents (outlet)

The air vents allow hot air to be discharged out of the PC.

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.

Combo audio jack

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

Right view



Figure 3. Lenovo ThinkBook Plus G5 Hybrid Station—right-side view

No.	Description
1	Power light
2	Power button (with an embedded fingerprint sensor)
3	Multi-purpose USB Type-C 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 3. 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.

Fingerprint sensor

The fingerprint sensor scans your finger to unlock your PC or verify your identity.

Note: You need to enroll one or more fingerprints before using them for identity verification. On a Windows PC, go to **Settings** → **Accounts** → **Sign-in options** to enroll your fingerprints.

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.

- Thunderbolt™-enabled docks or devices

Rear view

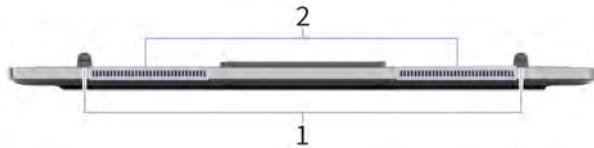


Figure 4. Lenovo ThinkBook Plus G5 Hybrid Station—rear view

No.	Description
1	Guide pins
2	Air vents (intake)

Guide pins

The guide pins help fix the ThinkBook Plus G5 Hybrid Tab securely.

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.

Bottom view

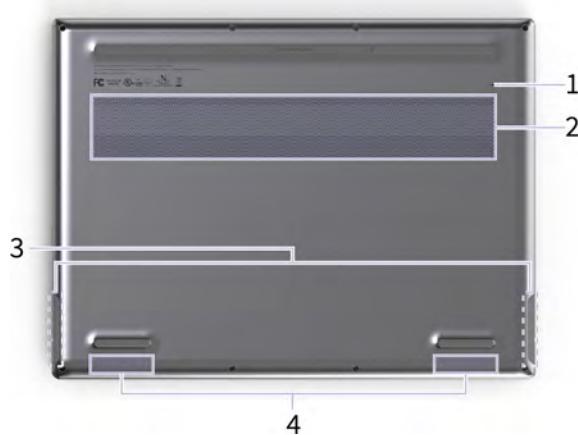


Figure 5. Lenovo ThinkBook Plus G5 Hybrid Station—bottom view

No.	Description
1	Novo button hole
2	Air vents (intake)
3	Antennas (cannot be seen from the outside)
4	Speakers

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.

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.

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.

Speakers

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

Features and specifications

Dimensions

Width	313.5 mm
Depth	234.5 mm
Thickness	9.45 mm

ac power adapter

Input	100 V ac–240 V ac, 50 Hz–60 Hz
Output voltage	20 V
Maximum output current	5 A
Maximum output power	100 W

Rechargeable battery pack

Capacity	75 Wh
Cell type	Lithium-polymer
Number of cells	4

Note: 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).

Memory

Type	LPDDR5x
Installation	On board
Number of slots	0

Mass storage device

Type	Solid-state drive (SSD)
Slot type	M.2 (2280)
Number of slots	1
Interface	PCIe Gen4 x 4

Display

Screen size (diagonal)	14 inches
Resolution	2880 x 1800
Supported refresh rates	60 Hz

Connectors and slots

Multi-purpose USB Type-C® connector	<ul style="list-style-type: none">Quantity: 2Maximum power output: 5 V, 3 AMaximum power input: 20 V, 7 ASupported signaling protocols:<ul style="list-style-type: none">USB 2.0 480 MbpsSuperSpeed USB 5 GbpsSuperSpeed USB 10 GbpsDisplayPort 1.4Thunderbolt 4 41.25 Gbps
Combo audio jack	<ul style="list-style-type: none">Diameter: 3.5 mmSupported plug:<ul style="list-style-type: none">3-pole, TRS4-pole, TRRS (CTIA and OMTP)

Note: Data rates and performance ratings are dependent on connected devices and cables if they are used. USB Type-C connectors that are DisplayPort 1.4 compliant through DisplayPort alternate mode provide maximum output resolution of 5120 x 3200, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel). The actual maximum output resolution is dependent on the connected display device and the cable being used.

Networking

Wi-Fi®	Wi-Fi 6E
Bluetooth®	Bluetooth 5.3

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)
3.2 Gen 1	5
3.2 Gen 2	10

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)

Laser safety information

This device is classified as a Class 1 consumer laser product per *IEC 60825-1:2014*, *EN 60825-1:2014* +A11:2021, and *EN 50689:2021*. This device complies with FDA performance standards for laser products except for conformance with *IEC 60825-1 Ed. 3*, as described in *Laser Notice No. 56*, dated May 8, 2019.



CAUTION:

This device contains a laser that could be damaged during repair or disassembly, which could result in hazardous exposure to infrared laser emissions. There are no user serviceable parts within the device. Do not attempt to disassemble or service the device.

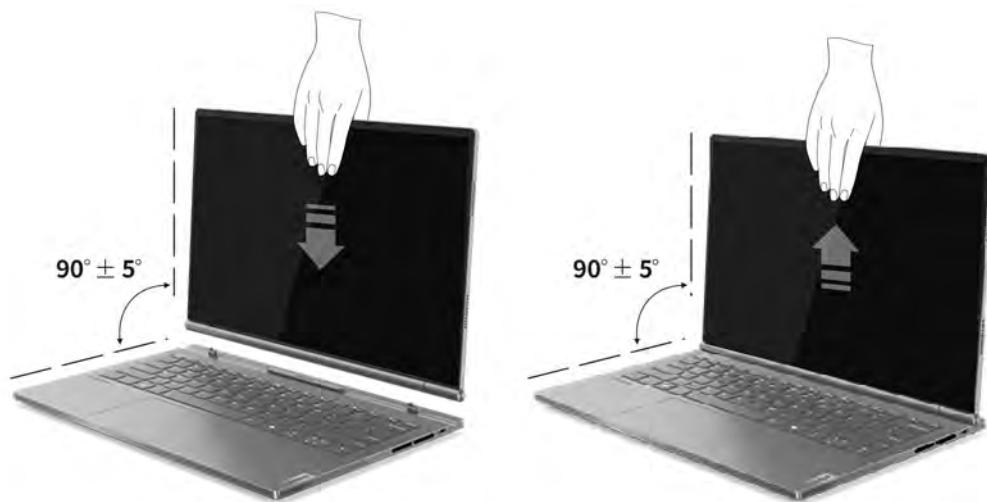
Chapter 2. Get started with your Hybrid Station

Attach and detach your Hybrid Tab

We recommend that you complete the combination of your Hybrid Tab with the Hybrid Station before starting your dual-system journey. Below are some tips to attach and detach the Hybrid Tab.

When attaching the Hybrid Tab, please align the two guide pins on the left and right sides, then insert it vertically downward. When detaching the Hybrid Tab, please adjust the screen opening angle to about 90°, then hold the Hybrid Station and lift the Hybrid Tab vertically to detach it.

Note: If the screen opening angle is too large or too small, the Hybrid Tab will be locked and unable to be detached.



Use your Hybrid Station in different modes

By attaching and detaching the Hybrid Tab, you can experience more flexibility and convenience for both work and entertainment. The ThinkBook Plus G5 offers several different modes as below:

Windows laptop mode

By attaching the Hybrid Tab to the Hybrid Station, you can use it in the form of a traditional Windows laptop, which is suitable for most of productivity tasks such as document editing, web browsing and software applications.



Android laptop mode

If you are on a travel and editing files in Windows laptop mode, but you find that the battery is running low, you can easily switch to Android laptop mode with a click on Smart Key. This helps save device power and extend battery life. The Android laptop mode provides more possibilities for effortless work and entertainment activities.



Hybrid mode

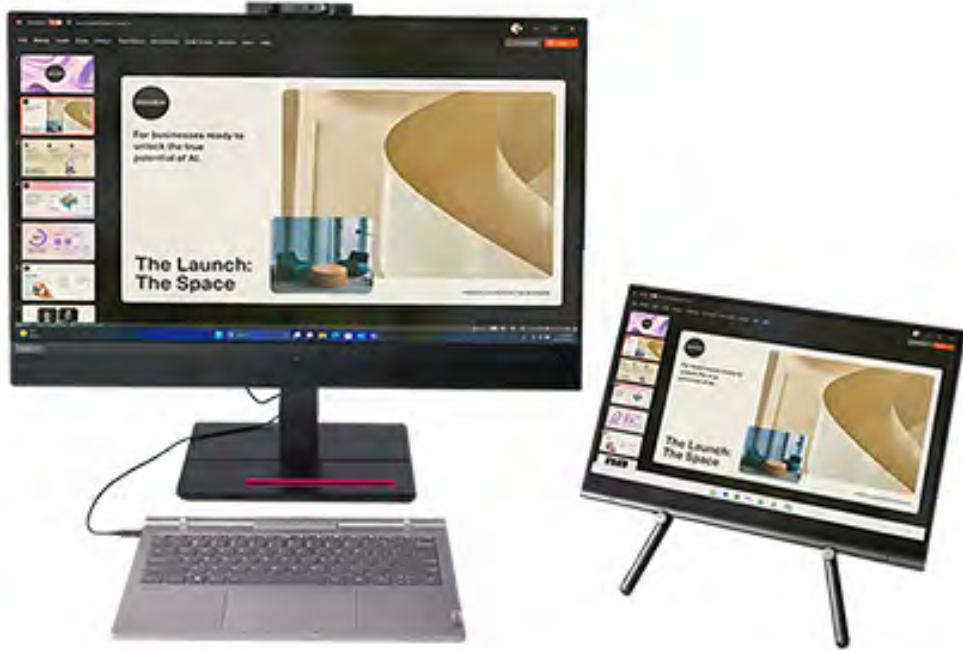
By attaching and successfully setting up the Hybrid Tab and the Hybrid Station, you can simultaneously operate both the Android and Windows systems on the screen. This allows you to benefit from the advantages of both operating systems while enhancing productivity and experiencing greater convenience.

Note: You could launch the Hybrid Stream through the homepage card of the Hybrid Center.



Base mode

By using the Hybrid Station with an external display under Windows system, while using the Android tablet for note-taking or browsing the web, you can enjoy a productivity experience with dual devices. This mode helps make it easier to handle multiple tasks simultaneously.



Android tablet mode

In this mode, you can take notes, deliver presentations, or watch videos by placing your tablet on a stand, allowing you to enjoy convenience anytime and anywhere.

For more information of Android tablet mode, please go to https://download.lenovo.com/consumer/redirect/thinkbook_plus_g5_hybrid_tab.html.



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>.



Unique Lenovo apps

Lenovo Vantage

Lenovo Vantage is a one-stop solution to help you update your computer, configure hardware settings, and access personalized support.

If your computer is pre-installed with Lenovo Vantage, type Vantage in the Windows search box to launch this app.

Notes:

- Available features may vary depending on your computer model.
- You can download the latest version of this app from Microsoft Store.

Lenovo Smart Meeting

Lenovo Smart Meeting is a video conferencing app with multiple features for enhancing your professional image, protecting your privacy, and reducing your computer's power consumption.

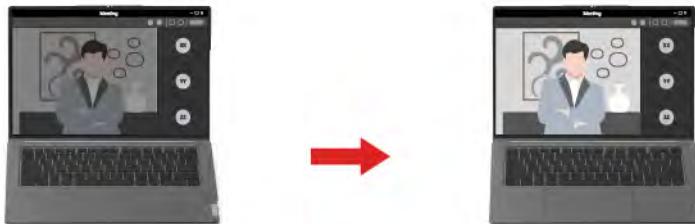
If you want your settings in this app to also take effect on other mainstream video conferencing apps, such as Microsoft Teams and Zoom, ensure that you select Lenovo Virtual Camera in the app.

Access the app

Type Lenovo Smart Meeting in the Windows search box and then press Enter.

Explore key features

- **Smart appearance**
 - **Video enhancer:** Adjust the brightness automatically for better image quality during the video call.



- **Face framing:** Keep your face centered automatically during the video call when you move around.



- **Customized background:** Blur or customize your background during the video call to protect your privacy.



- **Dual Camera Fusion:** Show the image of any participant that is visible from the front or rear of the camera on the screen when collaborating with a Lenovo Magic Bay 4K Webcam.



Note: You can purchase the Lenovo Magic Bay 4K Webcam from Lenovo at <https://www.lenovo.com/accessories>.

- **Temporary Avatar:** Create and display a temporary portrait of you as if you were still in the video conference when you are temporarily away.



Notes:

- Lenovo does not collect any personal data from this app.
- The available features vary depending on the computer model.
- Lenovo Smart Meeting makes periodic feature updates to keep improving your experience. The description described here might be different from that on your actual user interface.

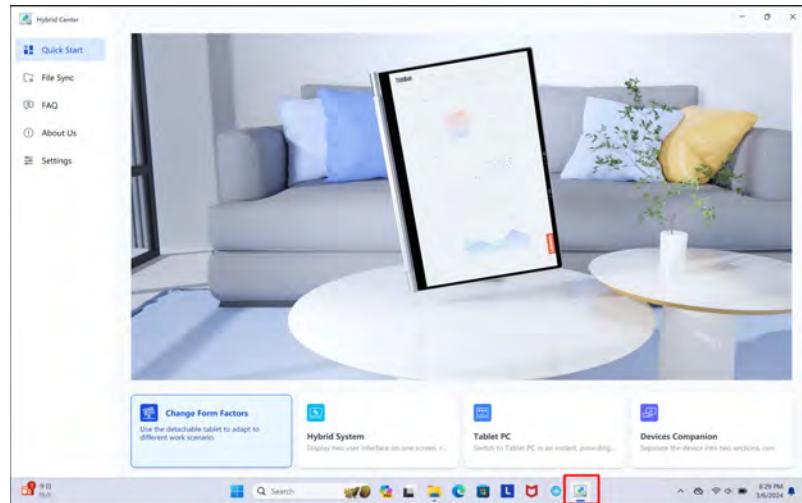
Hybrid Center

Hybrid Center is an app specifically developed for the Hybrid Station on Windows system. In this app, you can

- Quickly understand the various modes of the ThinkBook Plus G5.
- Open and setup the Hybrid Folder.
- Access frequently asked questions about the ThinkBook Plus G5.
- Customize the transition animation.
- Manage your battery life.

Note:

- To open the Hybrid Center, you can click  in the taskbar. Alternatively, you can search the app name in Windows search box and select the matched result.
- Hybrid Center makes periodic updates to improve your experience. The description of functionality may differ from the actual user interface.

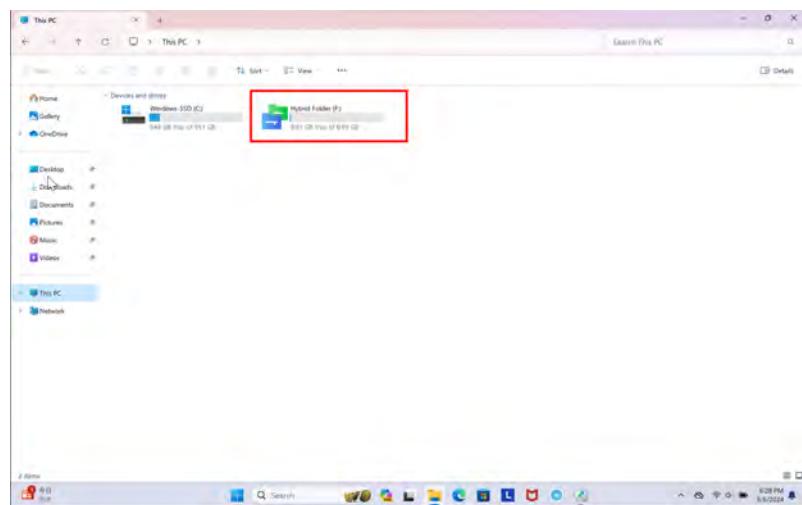


Hybrid Folder

Hybrid folder is a file sharing space specifically developed to achieve real-time cross-system file sharing between Android and Windows systems. You can save files to the Hybrid Folder or right-click and send files to the Hybrid folder to enable file sharing between the two systems.

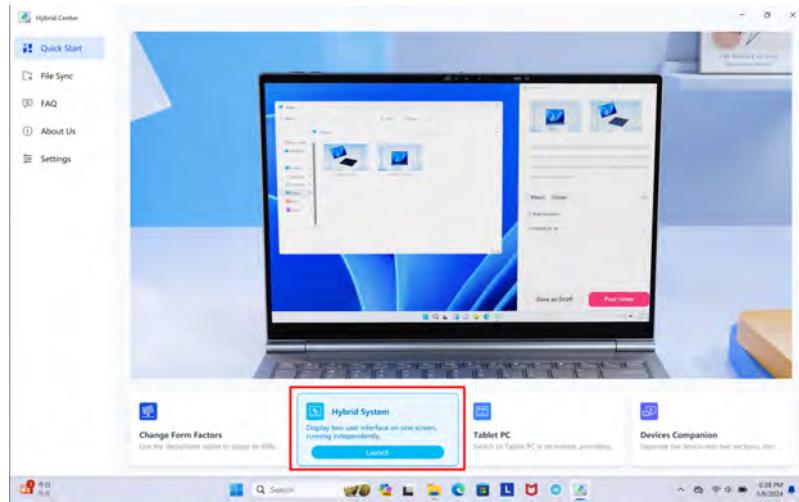
Notes:

- You can find the Hybrid Folder in **This PC**. Alternatively, you can open the Hybrid Center app, then select **File Sync → Hybrid Folder → Open** to access the Hybrid Folder.
- When there are conflicting versions of files between the two systems, you will need to manually resolve the conflicts or set up automatic conflict resolution rules in Hybrid Center.



Hybrid Stream

Hybrid Stream is a powerful screen mirroring tool specifically designed for the ThinkBook Plus G5. It allows you to mirror the display interface of the Hybrid Tab onto the Windows system. You can find Hybrid Stream on the homepage card of the Hybrid Center. Once you launch the Hybrid Stream, you could follow the on-screen instructions to enable dual-system display feature.



The Novo Button menu

The Novo Button menu can be displayed before the operating system starts. From the menu, you can choose to

- Open the BIOS/UEFI setup utility
- Open the boot device selection menu
- Open the Windows startup options screen

Note: From the Windows startup options screen, you can then choose to

- Start your computer using a recovery drive
- Reset your computer
- Open advanced options screen

Open the Novo Button menu

For Lenovo computers with a Novo button, you can press the button to open the Novo Button menu.

- Step 1. Turn off the computer.
- Step 2. Open the LCD screen and press the Novo button.

Note: Alternatively, turn off the computer. Press Fn and the power button to open the Novo Button menu.

Interact with your computer

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

Appendix A “Function descriptions for Lenovo hotkeys” on page 45

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.

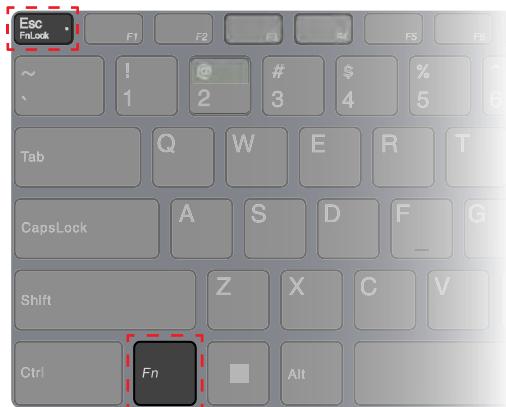


Figure 7. Locations of the FnLock key and the Fn key

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 and characters denoting the secondary functions.

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

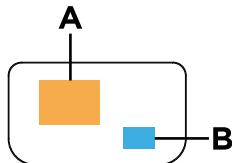


Figure 8. The layout of a dual-function key

Table 4. 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 .

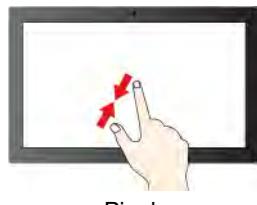
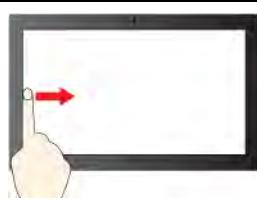
For Windows PCs with Copilot in Windows available and enabled, pressing the Copilot key opens Copilot in Windows. Otherwise, pressing the Copilot key opens Windows Search.

Note: Copilot in Windows may not be available in all geographical locations. In regions where Copilot in Windows is available, you may need to update your Windows operating system to version 23H2 or later through Windows Update for Copilot in Windows to become available.

Multi-touch gestures for touch-enabled screens

Selected Lenovo computers include a touch-enabled screen. For such a computer, you can use your fingers to interact with the operating system and apps that are gesture aware.

Note: Not all gestures are supported by all apps.

Gesture	Function
 Tap	Selecting an item
 Tap twice quickly	Double-clicking an item
 Tap and hold	Right-clicking an item
 Pinch	Zooming out
 Spread	Zooming in
 Tap from the left edge	Viewing all open apps

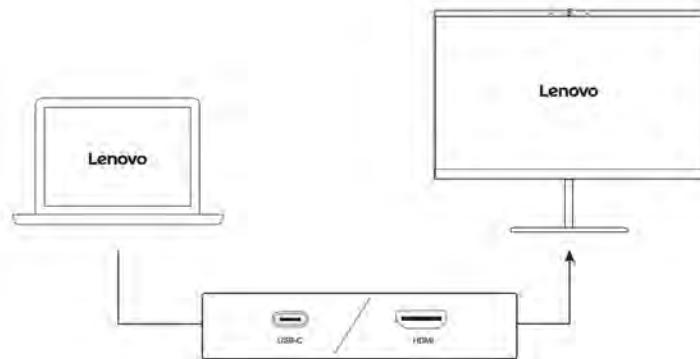
Gesture	Function
 Tap and hold	Displaying the Action Center of Windows

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.

Enroll your fingerprints

You can use the biometric fingerprint option to sign in to Windows quickly if your computer includes a fingerprint sensor. This sign-in option provides a reliable and secure way of identity verification.

Step 1. Select **Start** → **Settings** → **Accounts** → **Sign-in options**.

Step 2. Under **Ways to sign in**, select **Fingerprint recognition (Windows Hello)** to set up sign-in with a fingerprint sensor.

Step 3. Follow the on-screen instructions to enroll your fingerprints.

Notes:

- You need to set up a PIN code before you are allowed to use this sign-in option.
- It is recommended that you enroll multiple fingerprints in case of any injuries to your fingers.

Chapter 3. Explore your Hybrid Station

Intelligent features

Your computer may be pre-installed with Lenovo Vantage or Lenovo BaiYing. Most features described here can be enabled or disabled in one of these apps. Other features may be enabled in a standalone app.

Notes:

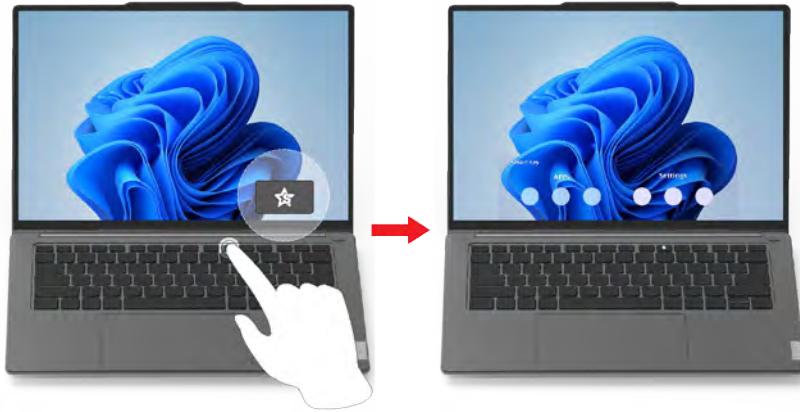
- Software features are subject to change. Please refer to your actual product.
- You may need to complete online update to the apps for the features to take effect.

Eye care mode

Eye care mode intelligently adjusts the color temperature of the screen to filter blue light, which can effectively reduce damage to the eyes, thus protecting the eyes. Eye care mode can be enabled or disabled in Lenovo Vantage or the Lenovo PC Manager.

Smart Key

Smart Key  provides a quick shortcut to Lenovo apps and service. Press Smart Key to open the launch panel.

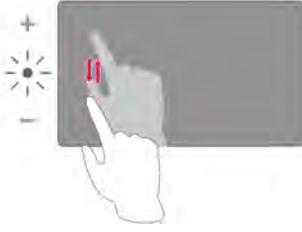


Note: There is also a trick to Smart Key. Go to **Preference** on the launch panel, select **ADD** and choose your favorite app to associate with Smart Key. When it is done, press Smart Key twice in quick succession and your favorite app is opened.

Gesture controls

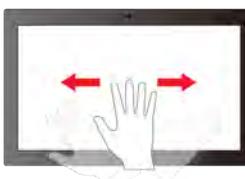
Lenovo unique touch gestures

In addition to touch gestures supported by the Windows operating system, some Lenovo computers may support additional touch gestures. You can perform these gestures on the touchpad of your computer.

Gesture	Function
 <p>Slide up/down on the left side of the touchpad</p> <p>Note: For computers with a touch-enabled screen, you can also perform this gesture on the left side of the screen.</p>	<p>Increases/Decreases display brightness when you watch videos in full screen mode.</p> <p>Note: This gesture is not supported by all video players and may conflict with similar third-party gesture functions.</p>
 <p>Slide up/down on the right side of the touchpad</p> <p>Note: For computers with a touch-enabled screen, you can also perform this gesture on the right side of the screen.</p>	<p>Increases/Decreases system volume when you watch videos in full screen mode.</p> <p>Note: This gesture is not supported by all video players and may conflict with similar third-party gesture functions.</p>

Air gestures

Some Lenovo computers include a time of flight (ToF) sensor on top of the screen. Such computers may support additional gestures that you can perform in front of the screen.

Gesture	Function
 <p>Wave your palm to the left/right</p>	<p>Goes back and forth among presentation slides or pictures in full screen mode.</p> <p>Note: This gesture is supported only by Microsoft PowerPoint and Windows Photos.</p>
 <p>Push your palm twice towards the screen</p>	<p>Pauses/resumes an ongoing video in full screen mode.</p> <p>Note: This gesture is not supported by all video players and may conflict with similar third-party gesture functions.</p>

Super resolution

This feature enhances the playback experience by improving the video resolution with deep learning by using the capabilities of Intel processors. It works especially well in cases where the source video has poor resolution.

For most players, super resolution can be enabled or disabled in Lenovo Vantage or the Lenovo Smart Engine, but for KMPlayer and PotPlayer, you need to enable this feature manually.

Note: You may need to connect to the Internet and complete Lenovo Vantage update for this function to take effect.

KMPlayer

Step 1. Open **Control Panel**.

Step 2. Select **Preferences** → **Video Processing** → **Video Renderer** → **EVR**.

PotPlayer

Show main menu and click **Video** → **Video Renderer** → **EVR (Vista/.Net3)**.

Smart Noise Cancelling

Smart Noise Cancelling is a noise reduction feature available on some Lenovo product models. By filtering out input and output noises, Smart Noise Cancelling enhances your audio experience.



Function	Description	Remarks
Microphone noise cancelling	Voice Recognition: Your computer captures multiple voices in a way that reflects their original spatial positions.	<ul style="list-style-type: none">• This function takes effect only when built-in microphones/arrays or 3.5 mm jack wired microphones are used as the input media.• To disable this function, select Off.
	Only My Voice: This option requires you to record your voice so that your computer captures this voice only and tries to eliminate other voices. Note: To remove your voice record, select REMOVE MY VOICE .	
	Normal: Your computer focuses on the voice of the person facing it and reduces ambient sounds.	
	Multiple Voices: Your computer captures multiple voices from an expanded range in front of the computer.	
Speaker noise cancelling	Your computer filters out other sounds to play only human voices.	These functions are not applicable to scenarios like listening to music and watching videos.
Meeting noise cancelling	When this function is selected, your computer uses special algorithms for noise reduction when you are using conferencing applications.	

Notes:

- Depending on its hardware, your computer may not support all the functions and options described above.
- You can view and customize this feature under **Device Settings** in Lenovo Vantage or Lenovo BaiYing.

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, Lenovo PC Manager, or Lenovo Smart Engine.

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 5. 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.

Nighttime charge optimization

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 nighttime charge optimization for the battery.

Nighttime charge optimization 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%. Nighttime charge optimization ensures safe charging during the night and is beneficial to the long-term health of the battery.

Note: With nighttime charge optimization 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 nighttime charge optimization, it can be enabled in Lenovo Vantage, Lenovo PC Manager, or Lenovo Smart Engine.

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 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 include 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.

System operation modes

Lenovo has preset several modes in which your computer can operate. The maximum attainable performance, power consumption, and speed limit for the heat sink fan vary among the operation modes. Consider the following conditions when you want to switch operation modes.

- The environment where you use your computer, and
- The tasks running on your computer

You can switch the operation mode in the pre-installed app Lenovo Vantage, Lenovo Smart Engine, or Lenovo PC Manager. As a shortcut, you can also use the key combination Fn + Q. Three modes are usually available for most Lenovo computers. The following table lists the operation modes and the recommended conditions for each mode.

Note: The operation modes listed in the table are descriptive and may not be the same as those displayed by the app.

Table 6. Operation modes and their recommended usage conditions

Operation mode	Recommended conditions
High Performance	<ul style="list-style-type: none">• Your computer is plugged into an electrical outlet.• You want the best performance, and• You don't care if the fan makes a little noise.
Auto (Balance)	You plan to frequently switch between different computer tasks over a period time.
Power Saving (Quiet)	<ul style="list-style-type: none">• Your computer is operating on battery power, or• You want the computer to be as quiet as possible.

Note: In Auto (Balanced) mode, the computer dynamically switches between High Performance mode and Power Saving (Quiet) mode depending on the tasks running on the computer.

Adjustable display refresh rate

Your eyes might not notice it but the content displayed on the computer screen refreshes constantly. Display refresh rate refers to the number of times per second the screen content refreshes itself and is measured in hertz (Hz).

A refresh rate of 60 Hz is adequate for most situations and is energy efficient. However, when viewing videos or playing video games, a higher refresh rate usually provides a smoother viewing experience.

The displays of some Lenovo computers support dual refresh rates. For such a computer, you can manually switch its display to work at either the higher or lower refresh rate. For Windows operation systems, the manual settings are usually found in **Settings → System → Display**. As a shortcut, you can also use the key combination Fn + R to switch the display refresh rate.

Note: Not all displays support dual refresh rates. If you cannot find settings to change the display refresh rate, the refresh rate of the display might be fixed or cannot be manually changed.

Change settings in UEFI/BIOS setup utility

This section introduces what is UEFI/BIOS 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 F1 repeatedly.

Select boot devices

Normally, the computer starts to a boot manager loaded from the secondary storage device of the computer. Occasionally, you may need to start the computer to 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 F1–F12 as Primary Function

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Config** → **Keyboard** → **F1–F12 as Primary Function** and press Enter.
- Step 3. Change the setting to **Disabled** or **Enabled**.
- Step 4. Select **Restart** → **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 **Config** → **USB** → **Always On USB** and press Enter.
- Step 3. Change the setting to **Disabled** or **Enabled**.
- Step 4. Select **Restart** → **Exit Saving Changes**.

Enable or disable Flip to Start

When Flip to Start is enabled, you can turn on the computer by flipping open the screen.

- Step 1. Open the UEFI/BIOS setup utility.

Step 2. Select **Config → Power → Flip To Start**.

Step 3. Change the setting for **Flip to Start**.

Note: You may also set Flip to Start in Lenovo Vantage or Lenovo BaiYing.

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 supervisor 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 → Password → Set Supervisor 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 **Restart → 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 supervisor 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** → **Password** → **Set Supervisor 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 **Restart** → **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** → **Password** → **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 **Restart** → **Exit Saving Changes**.

Enable power-on password

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

- Step 1. Open the UEFI/BIOS setup utility.
- Step 2. Select **Security** → **Password** → **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 **Restart** → **Exit Saving Changes**.

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

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

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

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

Step 4. Select **Restart → 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 → Password**.

Step 3. Change or remove the hard disk password.

To change or remove 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 user password, select **Change User Password** and press Enter.

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

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

Chapter 4. Help and support

Frequently asked questions

How do I partition my storage drive

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

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 screen brightness change constantly

Your computer may include an ambient light sensor and the adaptive brightness feature is enabled. The light sensor can detect the intensity of the surrounding light. Using data provided by the sensor, the operating system can dynamically adjust the screen brightness.

The adaptive brightness feature of the operating system can be disabled. For Windows operating systems, adaptive brightness settings are usually found in **Settings → System → Display**.

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

What is a CRU?

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

Self-service CRU	Parts that can be installed or replaced easily by customer themselves or by trained service technicians at an additional cost.
Optional-service CRU	Parts that can be installed or replaced by customers with a greater skill level. Trained service technicians can also provide service to install or 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 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.

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	
ThinkBook Magic Bay — MagiCandle	X	
ThinkBook Magic Bay — MagiCam *	X	
ThinkBook Magic Bay — MagiConnect *	X	

* for selected models

Notes:

- CRU replacement instruction is provided in one or more of the following publications and are available from Lenovo at any time upon your request.
 - the product *User Guide*
 - the printed publications that came 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.

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

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 nonwarranted 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.

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.

Appendix A. Function descriptions for Lenovo hotkeys

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

Table 7. 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, voice service, or Microsoft Cortana.
💡	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 7. 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.

Appendix B. Notices and trademarks

Notices

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

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