User Guide

Yoga Slim 7 Carbon (14″, 6)

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

Model name	Machine type (MT)
Yoga Slim 7 Carbon 14ACN6	82L0
Yoga Slim 7 Carbon 14ACN6 D	82L0
Yoga Slim 7 Carbon 14ACN6 U	82L0

- 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.
- 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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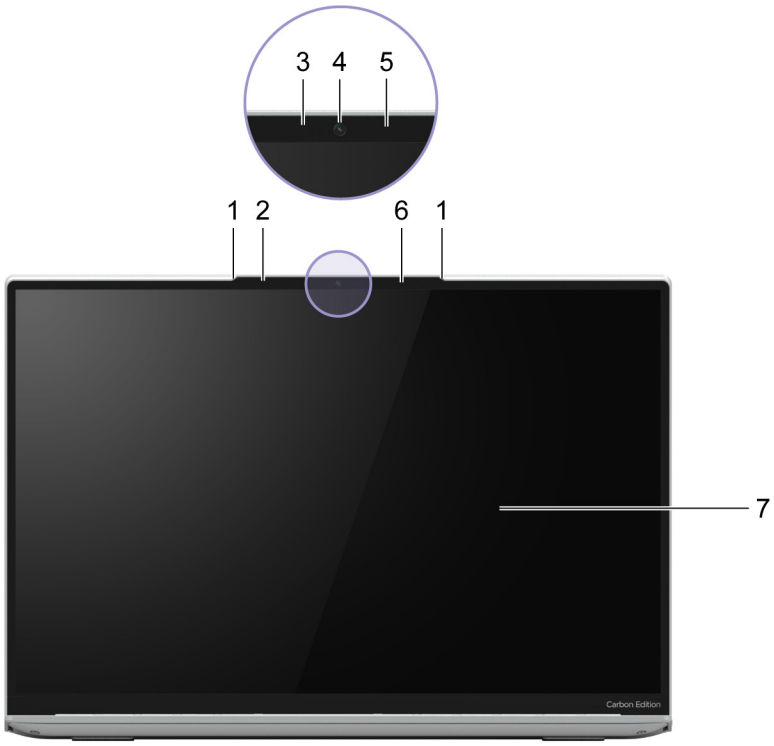
Chapter 1. Meet your computer

Front



1. Microphones	Capture or record sound and voice.
2. Ambient light sensor	Detect the surrounding light intensity and adjust the brightness of the built-in screen accordingly. **Note:** To turn off the automatic brightness adjustment, type `display settings` in the Windows search box and then press Enter.
3. Infrared LED	Emit infrared light for face authentication.
4. Camera	• Capture still and moving images for taking photos, recording videos, and video chatting. • Capture your face images for face authentication. **Note:** Use Windows Hello to enroll your face for face authentication.
5. Camera light	If the light is on, the camera is in use.
6. Time of flight (ToF) sensor	Detect human presence in front of the computer for facilitating zero touch and other convenient features.
7. Screen	Display text, graphics, and videos. Selected models support multi-touch function.

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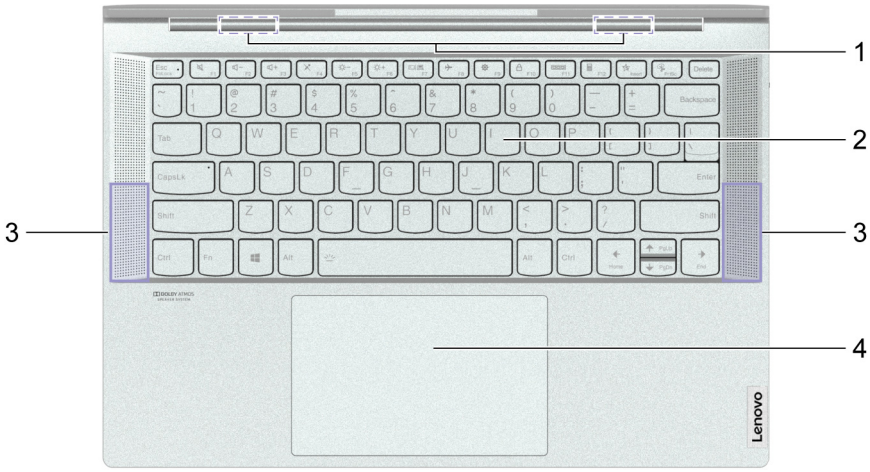
Base



1. Wireless antennas	Send and receive radio waves for the built-in wireless LAN (local area network) and Bluetooth module. **Notes:** • The antennas are not visible from the outside of the computer. • If the location of the antennas is close to the user's body (< 20 cm), you can find the Specific Absorption Rate (SAR) values in the *Setup Guide* that comes with your computer.
2. Keyboard	Enter characters and interact with programs. **Note:** The keyboard also includes hotkeys and function keys for changing settings and performing tasks quickly.
3. Speakers	Produce sound.
4. Touchpad	Perform finger touch and all the functions of a traditional mouse. **Note:** The touchpad also supports multi-touch function.

Left

1. Charging light	Indicate whether the computer is connected to ac power. • Solid white: Connected to ac power; battery capacity 91%–100% • Solid amber: Connected to ac power; battery capacity 1%–90% • Off: Not connected to ac power
2. Power connector/USB-C® connector	• Connect to power with the included power cord and ac power adapter. • Connect to an external display, storage, or data devices. **Note:** An appropriate adapter may be needed for connecting to external devices.
3. Combo audio jack	Connect to headphones or headsets with a 3.5 mm (0.14 inch), 4-pole plug. **Note:** This jack does not support standalone external microphones. If you use headsets, choose one with a single plug.

Right

1. USB-C connector	Connect to an external storage or data devices. **Note:** An appropriate adapter may be needed for connecting to external devices. This connector cannot be used to connect external display devices.
2. Camera cover slider	Move the slider to cover or uncover the camera lens. **Note:** The camera cover helps you better protect your privacy.
3. Power button	Press the button to turn on the computer or put the computer into sleep mode. **Note:** You can turn on the computer by flipping open the LCD screen if Flip to Boot is enabled.
4. Power light	• On: The computer is turned on. • Off: The computer is turned off or in hibernation mode. • Blinking: The computer is in sleep mode.

Bottom

1. Ventilation slots (inlet)	Maintain the incoming airflow to dissipate internal heat. **Note:** Do not block the ventilation slots. Otherwise, the computer might overheat.
2. Novo button hole	Press the Novo Button to open the **Novo Button** menu. From the menu, you can choose to open the UEFI/BIOS setup utility, the Boot menu, or the Windows startup options screen.

Features and specifications

Dimensions	• Width: 313 mm (12.32 inches) • Depth: 214.5 mm (8.44 inches) • Thickness: 14.9 mm (0.59 inches)
ac power adapter	• Input: 100 V ac–240 V ac, 50 Hz–60 Hz • Maximum output: 20 V dc, 3.25 A • Maximum power: 65 W
Battery pack	• Capacity: 61 Wh • Number of cells: x **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).
Microprocessor	To view the microprocessor information of your computer, type `system information` in the Windows search box and then press Enter.
Memory	• Type: LPDDR4X • Number of physical slots: 0
Storage device	• Type: solid-state drive • Form factor: M.2 (2242 or 2280) • Bus: PCI Express
Screen	• Size: 355.6mm (14 inches) • Display resolution – 2880 × 1800 pixels – 3840 × 2400 pixels (UHD model)
Keyboard	• Function keys • Hotkeys • Keyboard backlight
Connectors and slots	• Combo audio jack • USB-C connector – Power input up to 65 W using the included power adapter – Power output up to 5 V and 3 A – USB data transfer rate up to 5 Gbps for USB 3.2 Gen 1 – USB data transfer rate up to 10 Gbps for USB 3.2 Gen 2 – DisplayPort 1.4. Supports maximum output resolution of 5120 × 3200, at 60 Hz frame rate and color depth of 24 bpp (bits per pixel). **Note:** Data rates and performance ratings are dependent on connected devices and cables if they are used. For DisplayPort connection through a USB-C port, the listed maximum output capacity is only available on external displays with a DisplayPort, a Mini DisplayPort, or a USB-C port that supports DisplayPort Alternate Mode. For connections using a converter or an adapter, the actual output resolution may be lower.

Security	• UEFI/BIOS passwords – Administrator password – User password – Master hard disk password – User hard disk password
Network	• Bluetooth and Wi-Fi combo adapter

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)

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 xx at a time. As such, it is recommended that users avoid prolonged direct contact with the bottom of the computer.**

Chapter 2. Get started with your computer

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 1. 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. **Note:** 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
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. **Note:** For more guidance on reducing eye fatigue or eye strain, go to https://www.lenovo.com/us/en/compliance/visual-fatigue.	Night light
Adjust color temperature	If night light mode is turned on, you can adjust the color temperature of the screen. **Note:** Selected Lenovo computers are low blue light certified. These computers are tested with night light turned on and color temperature set to the default value of 48.	Night light
Windows Updates	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. **Attention:** Only use Windows Update to download and install updates. Updates downloaded from other sources may include security risks.	Windows Updates

Table 2. 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

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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.

Lenovo Vantage and Lenovo PC Manager

They are both apps developed by Lenovo. Using either of them, you can:

- View product information and system status
- Manage and change device settings
- Check for and perform system update

  Note: This feature is only available on Lenovo Vantage. In Lenovo PC Manager, you can check for and perform driver update.

Depending on the country or region in which your computer is purchased, one of the apps may be pre-installed on your computer. To open it, type its name in the Windows Search box and select the matched result. If neither of the apps is pre-installed, you may install one on your own. Lenovo Vantage is available for download free of charge from the Microsoft Store.

Note: App features are subject to change with updates and specific features may not be available on all Lenovo products.

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

Keyboard hotkeys

Some keys on the keyboard are printed with icons. These keys are called hotkeys and can be pressed alone or in combination with the Fn key to open certain apps or change certain settings quickly. The functions of the hotkeys are symbolized by the icons printed on them.

Hotkey	Function
	Mute/Unmute sound.
	Decrease/Increase system volume.
	Mute/Unmute the microphone.
	Increase/Decrease screen brightness.
	Switch display devices.
	Turn airplane mode on and off.
	Open the Windows Settings app.
	Lock the screen.
	Display thumbnails of all open apps.
	Open the Windows Calculator app.
	Open Lenovo Vantage, Lenovo PC Manager, or an app launch bar.
	Open the Windows snipping tool.
	Turn on/off or adjust the brightness of the keyboard backlight. **Note:** This hotkey must be used with the Fn key.

Hotkey mode

Some hotkeys share keys with function keys (F1 to F12). The hotkey mode is a UEFI/BIOS setting that changes how hotkeys (or function keys) are used.

Hotkey mode setting	How to use hotkeys	How to use function keys
Disabled	Hold down the Fn key and press one of the hotkeys.	Press the function keys directly.
Enabled	Press the hotkeys directly.	Hold down the Fn key and press one of the function keys.

Note: Hotkeys that do not share keys with function keys are not affected by the hotkey mode setting. They should always be used with the Fn key.

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 for these keys.

Key combination	Hidden function
Fn + B	Break
Fn + P	Pause
Fn + S	SysRq
Fn + K	ScrLk
Fn + Q	Switch performance modes
Fn + R *	Adjust display refresh rate
Fn + 4	Put the computer to sleep mode

* for selected models

Hotkey mode

Some hotkeys share keys with function keys (F1 to F12). The hotkey mode is a UEFI/BIOS setting that changes how hotkeys (or function keys) are used.

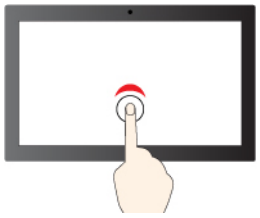
Hotkey mode setting	How to use hotkeys	How to use function keys
Disabled	Hold down the Fn key and press one of the hotkeys.	Press the function keys directly.
Enabled	Press the hotkeys directly.	Hold down the Fn key and press one of the function keys.

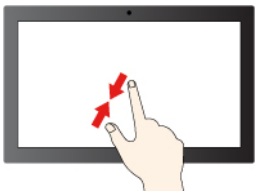
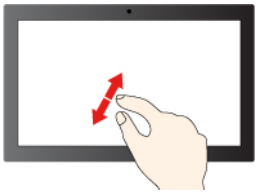
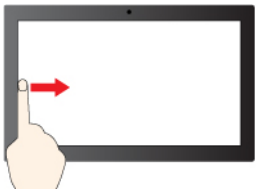
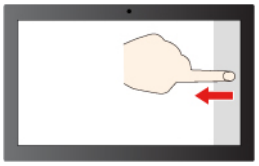
Note: Hotkeys that do not share keys with function keys are not affected by the hotkey mode setting. They should always be used with the Fn key.

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

Gesture	Function
Tap and hold	Right-clicking an item
 Pinch	Zooming out
 Spread	Zooming in
 Tap from the left edge	Viewing all open apps
 Tap and hold	Displaying the Action Center of Windows

Chapter 3. Explore your computer

Intelligent features

Some Lenovo computers include a ToF sensor and an IR camera on top of the screen. Using data provided by the ToF sensor and IR camera, the computer is able to behave like a human. It can detect your presence, your movement, and perform operations automatically to protect your privacy, save battery power, or just make your daily use of the computer easier. The following table provides an introduction to some of the intelligent features and where you can set them up.

Table 3. Intelligent features

Your behavior	Computer operation	Setup app
Leave the computer	• Pause the ongoing video playback. • (If you do not come back shortly) Automatically lock the screen and put the computer into sleep mode. **Note:** Not all applications support automatic video pausing and resuming. In particular, videos played in a Web browser cannot be automatically paused.	Lenovo Vantage or Lenovo PC Manager
Come back to the computer after leaving it unattended for a while	Automatically wake up the computer and sign you into the system. **Note:** You must use Windows Hello to set up face recognition before you can be signed in automatically. Face sign-in may fail due to poor domestic lighting or improper setting of the screen opening angle. Improve lighting, adjust the screen opening angle, or use another sign-in option if you're not signed in automatically.	Lenovo Vantage or Lenovo PC Manager
Use videoconferencing apps	Blur the background	Lenovo Vantage or Lenovo PC Manager
Move your head sideways while pressing and holding a window title	Move application windows between screens	Glance by Mirametrix
Move your head sideways	Move pointer between screens.	Glance by Mirametrix

Note: Your computer may be pre-installed with either Lenovo Vantage or Lenovo PC Manager but not both. The above listed features may not be enabled by default. You may need to enable these features in the corresponding setup app.

Customize intelligent features in Lenovo Vantage

You can enable or disable and customize many intelligent features in Lenovo Vantage.

Step 1. Open Lenovo Vantage.

Step 2. Select **Hardware Settings → Smart Settings**.

Step 3. Change settings that control the various intelligent features.

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Use Glance by Mirametrix

Glance by Mirametrix provides multiple functions, such as snap window, smart pointer, smart display and privacy alert.

Open Glance by Mirametrix

You need to open Glance by Mirametrix to use the snap window and smart pointer feature.

Step 1. Enter the software name in Windows Search box.

Step 2. Select the matched result.

The software icon appears in the Windows notification area to indicate that the software is open.

Note: When the software is open, it takes up computer memory and may affect computer performance in rare cases where available memory is limited. If you don't need to use the Glance features, close the software by right-clicking its icon and selecting **Exit**. On the settings page of the software, you can change the **Launch on Startup** setting to enable or disable the software to start with Windows.

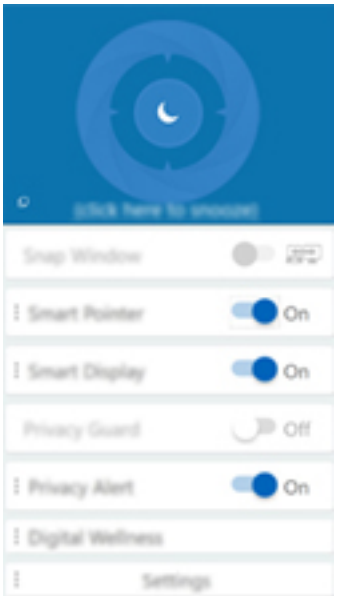
Disable or enable glance detection

You can temporarily disable glance detection if you are not using the related features.

Step 1. Open the console by clicking the Glance by Mirametrix icon in Windows notification area.

Step 2. Move the pointer over the calibration window.

Step 3. Click the window when the snooze icon appears.



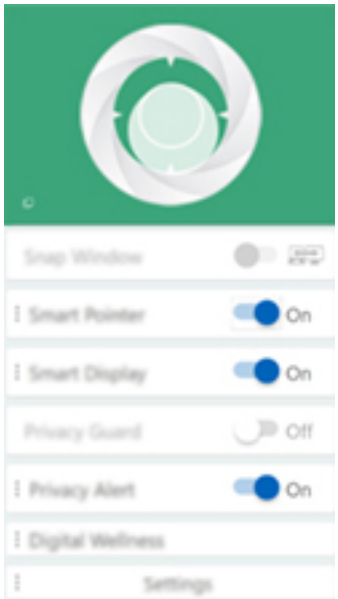
To save battery power, you can turn on **Snooze when unplugged** or **Snooze when no external monitors** on the software settings page.

Calibrate your head position

You can use the calibration window of Glance by Mirametrix to adjust your head position so that the ToF sensor can better detect your head movement.

Step 1. Open the console by clicking the Glance by Mirametrix icon in the Windows notification area.The calibration window is displayed on top of the console. Your head is represented by a shaded circle.

Step 2. Move your head or adjust the angle of the screen so that the shaded circle is positioned within the outer ring.The background color of the calibration window changes during calibration. The green color indicates that your head position is good and the sensor can detect your movement easily.



Note: If the background color is red, the sensor cannot detect your head movement.

Use smart pointer

When smart pointer is enabled, you can move the pointer between screens by simply moving your head.

Step 1. Connect an external display and set project mode to **Extend**.

Note: Smart pointer does not work in duplicate mode.

Step 2. Turn on **Smart Pointer** on the console of Glance by Mirametrix.

Step 3. Move your head sideways to move the pointer between displays.

Use snap window

When snap window is enabled, you can move application windows between screens.

Step 1. Connect an external display and set project mode to **Extend**.

Note: Snap window does not work in duplicate mode.

Step 2. Turn on **Snap Window** on the console of Glance by Mirametrix.

Step 3. Display the application window and make sure it is not maximized or minimized.

Note: Maximized or minimized windows cannot be moved.

Step 4. Holding down the title of the window, move your head sideways to move the application window.

Use smart display

Smart display allows the user to blur monitors not being looked at. Glance constantly monitors the direction that the user is facing and only unblurs the monitor currently being faced. For monitors that Glance cannot use, a manual toggle exists to blur and unblur.

Use privacy alert

Privacy alert is a shoulder surfing indicator which uses Glance to detect if multiple people are looking at the screen. An icon on the screen appears to alert that someone is looking over the user's shoulder. The privacy alert icon will normally remain as long as more than one user is looking at the screen.

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.

Zero touch

Zero touch enables you to improve work efficiency by automatically waking up and logging in to your computer, or dimming the display and locking the computer depending on user detection. For selected video players, this feature will pause any video playing when you leave the computer and resume upon your return. Zero touch can be enabled or disabled in Lenovo Vantage or Lenovo PC Manager.

Enable or disable Flip to Boot

If Flip to Boot is enabled, you can turn on the computer by flipping open the LCD screen.

Step 1. Open Lenovo Vantage.

Step 2. Click **Device → My Device Settings → Power settings → Flip to boot** to change the setting.

Note: You can also change the setting for Flip to Boot in Lenovo PC Manager, or open the UEFI/BIOS setup utility and then select **Configuration** to change.

Smart motion alert

Your computer includes a G-Sensor. When enabled, the sensor detects whether your computer is moving. Based on the detection, the computer may automatically sound an alarm to alert you and help prevent loss. Simultaneously, it will take photos to help find who moved your computer. Smart motion alert can be enabled or disabled in Lenovo Vantage.

Step 1. Open Lenovo Vantage.

Step 2. Click **Device → Smart Assist → Intelligent sensing**.

Manage power

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

Check the battery status

The battery status icon or is in the Windows notification area. You can check the battery status, view the current power plan, and access battery settings quickly.

Click the battery status icon to display the percentage of battery power remaining and change the power mode. A warning message is displayed when the battery is low.

Charge the battery

When the remaining battery power is low, charge your battery by connecting your computer to ac power.

The battery is fully charged in about two to four hours. The actual charging time depends on the battery capacity, the physical environment, and whether you are using the computer.

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 or Lenovo PC Manager.

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.

To extend your battery's lifespan, the battery may optimize its full charge capacity based on your usage. After prolonged periods of limited use, full battery capacity may not be available until you discharge to as low as 20% and recharge completely. For more information, refer to the power section of Lenovo Vantage.

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 10 minutes
- Put the computer to sleep: after 10 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.

OLED power saving

Your computer's OLED display can also reduce power consumption and increase battery life by selectively dimming portions of the display.

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 F2 repeatedly.

Note: For computers with hotkey mode enabled, press Fn + F2.

Change the startup sequence

You may need to change the startup sequence to allow the computer to start from another device or a network location.

Step 1. Open the UEFI/BIOS setup utility.

Step 2. Navigate to the Boot menu.

Step 3. Follow on-screen instructions to change the order of devices under Boot Priority Order.

Note: You can also change startup sequence temporarily without opening the setup utility. To do so, start the computer. When the Lenovo logo appears, press F12 (or Fn + F12) repeatedly.

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**.

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 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 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 → 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 **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 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 **Exit → 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

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	• https://www.lenovo.com/tips • https://forums.lenovo.com
Accessibility information	https://www.lenovo.com/accessibility
Reset or restore Windows	• Use Lenovo recovery options. 1. Go to https://support.lenovo.com/HowToCreateLenovoRecovery. 2. Follow the on-screen instructions. • Use Windows recovery options. 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.

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Resources	How to access?
Use Lenovo Vantage or Lenovo PC Manager to: • 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: • *Generic Safety and Compliance Notices* • *Safety and Warranty Guide* • *Setup Guide* • This *User Guide* • *Regulatory Notice*	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: • 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	• 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	

* 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
• Product name • Machine type and serial number	• 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. Notices and trademarks

Notices

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