

**lenovo**

# Lenovo IdeaPad U310/U410

User Guide v3.0



Read the safety notices and important tips in the included manuals before using your computer.

ideapad

## Note

- Before using the product, be sure to read *Lenovo Safety and General Information Guide* first.
- Some instructions in this guide may assume that you are using Windows® 8. If you are using other Windows operating system, some operations may be slightly different. If you are using other operating systems, some operations may not apply to you.
- The features described in this guide are common to most models. Some features may not be available on your computer and/or your computer may include features that are not described in this user guide.
- The illustrations used in this manual are for Lenovo IdeaPad U410 unless otherwise stated.
- The illustrations in this manual may differ from the actual product. Please refer to the actual product.

## Regulatory Notice

- To refer to it, go to <http://support.lenovo.com> and click **User guides and manuals**.

**Third Edition (August 2012)**

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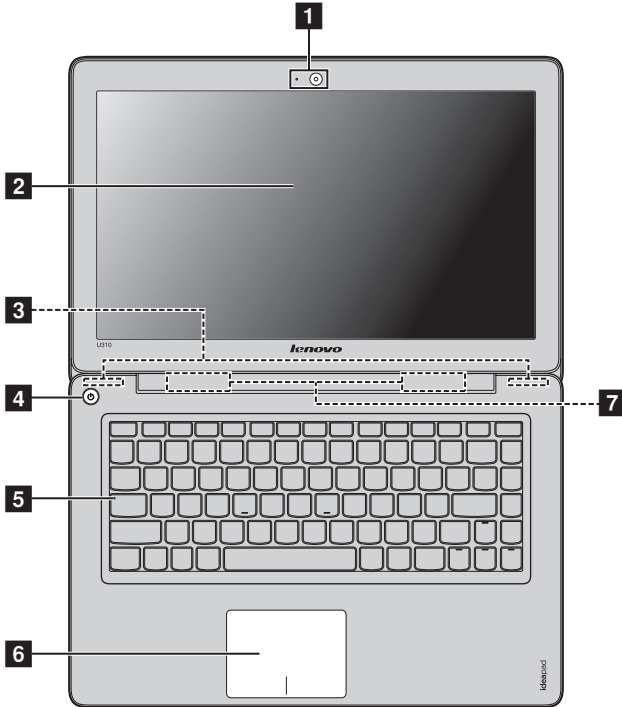


# Chapter 1. Getting to know your computer

## ■ ■ Top view

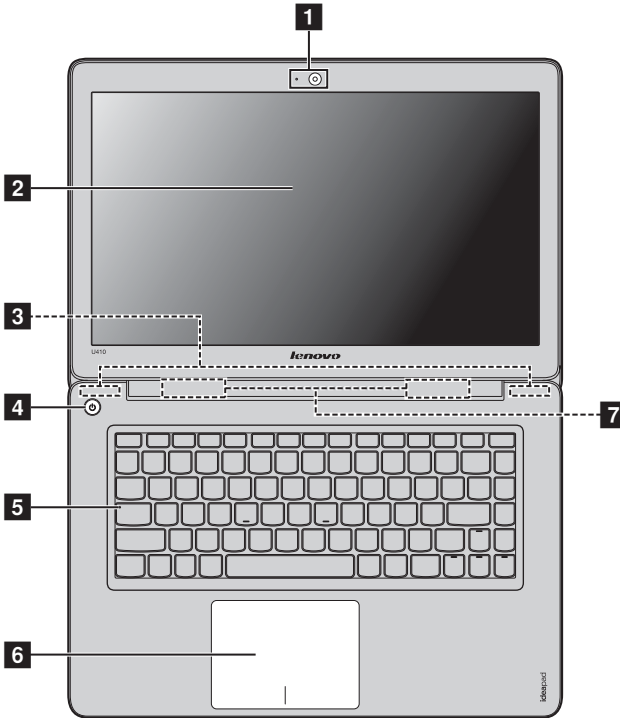
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### ■ U310



## Chapter 1. Getting to know your computer

### ■ U410



**Note:** The illustrations in this manual may differ from the actual product. Please refer to the actual product.

#### ⦿ Attention:

- Do NOT open the display panel beyond 130 degrees. When closing the display panel, be careful NOT to leave pens or any other objects in between the display panel and the keyboard. Otherwise, the display panel may be damaged.
- The parts bounded by dashed lines are internally installed.

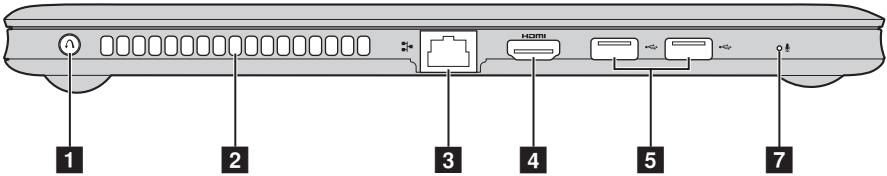
## Chapter 1. Getting to know your computer

- 1 Integrated camera** Use the camera for video communication.
  - 2 Computer display** The LCD display with LED backlight provides brilliant visual output.
  - 3 Wireless module antennas** The built-in antennas ensure optimal reception of wireless radio.
  - 4 Power button** Press this button to turn on the computer.
  - 5 System status indicators** For details, see “System status indicators” on page 21.
  - 6 Touchpad** The touchpad functions as a conventional mouse.
- Note:** For details, see “Using the touchpad” on page 13.
- 7 Speakers** The stereo speakers provide rich and powerful sound.

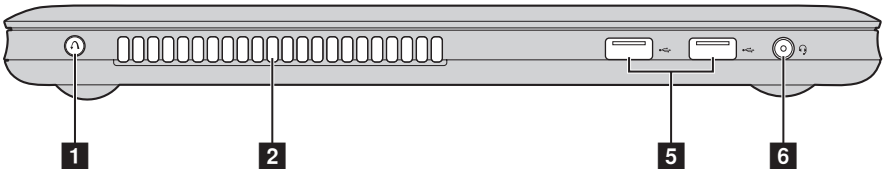
## Chapter 1. Getting to know your computer

### ■ ■ Left-side view

#### ■ U310



#### ■ U410



- 1 Novo button** When the computer is off, press this button to start the Lenovo OneKey Recovery system or the BIOS setup utility, or to enter the boot menu.

**Note:** For details, see “Chapter 5. Lenovo OneKey Recovery system” on page 34.

- 2 Fan louvers** Dissipate internal heat.

**Note:** Make sure that none of the fan louvers are blocked or else overheating of the computer may occur.

- 3 RJ-45 port** This port connects the computer to an Ethernet network.

**Note:** For details, see “Wired connection” on page 30.

- 4 HDMI port** Connects to devices with HDMI input such as a TV or a display.

- 5 USB port** Connect to USB devices.

**Note:** For details, see “Connecting USB devices” on page 18.



## Chapter 1. Getting to know your computer

- 6 Combo audio jack** Connects to headphones or headsets. The combo audio jack does not support conventional microphones.

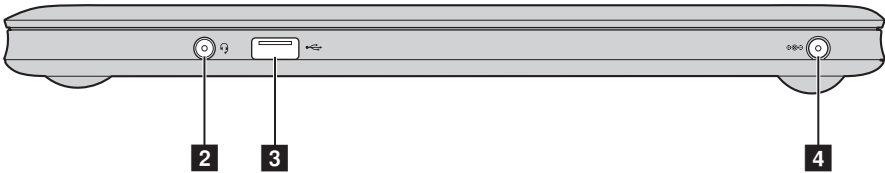
**Note:** Recording may not be supported if third-party headphones or headsets are connected, due to different industry standards.

- 7 Built-in microphone** The built-in microphone (with noise reduction) can be used for video conferencing, voice narration, or simple audio recordings.

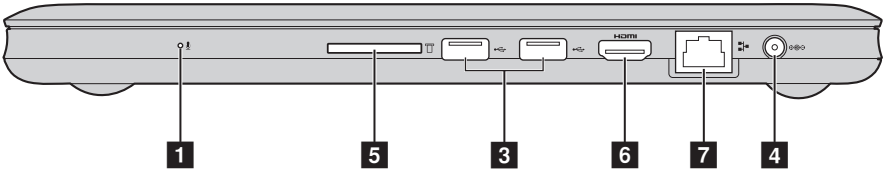
## Chapter 1. Getting to know your computer

### Right-side view

#### U310



#### U410



#### 1 Built-in microphone

The built-in microphone (with noise reduction) can be used for video conferencing, voice narration, or simple audio recordings.

#### 2 Combo audio jack

Connects to headphones or headsets. The combo audio jack does not support conventional microphones.

**Note:** Recording may not be supported if third-party headphones or headsets are connected, due to different industry standards.

#### 3 USB port

Connects to USB devices.

**Note:** For details, see “Connecting USB devices” on page 18.

#### 4 AC power adapter jack

Connect the AC adapter here.

**Note:** For details, see “Using AC adapter and battery” on page 12.

#### 5 Memory card slot

Insert memory cards (not supplied) here.

**Note:** For details, see “Using memory cards (not supplied)” on page 17.

## Chapter 1. Getting to know your computer

- 6 HDMI port**                      Connects to devices with HDMI input such as a TV or a display.
- 7 RJ-45 port**                      This port connects the computer to an Ethernet network.

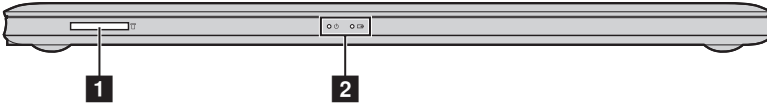
**Note:** For details, see “Wired connection” on page 30.

## Chapter 1. Getting to know your computer

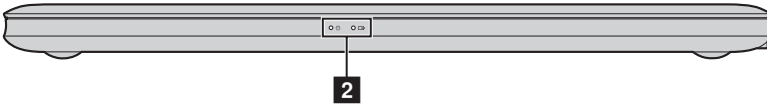
### ●● Front view

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#### ■ U310



#### ■ U410



- 1 Memory card slot** Insert memory cards (not supplied) here.

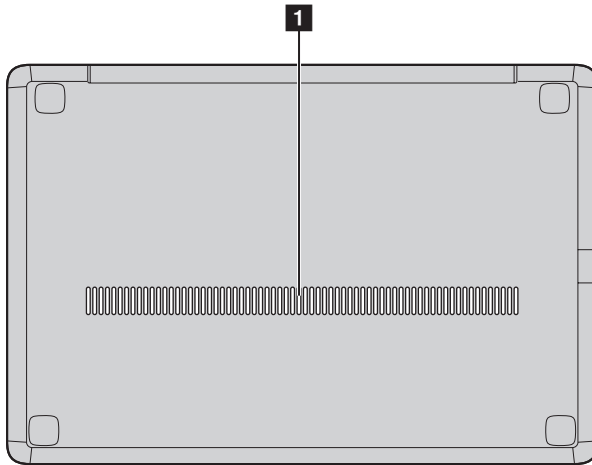
**Note:** For details, see “Using memory cards (not supplied)” on page 17.

- 2 System status indicators** For details, see “System status indicators” on page 21.

■ ■ **Bottom view**

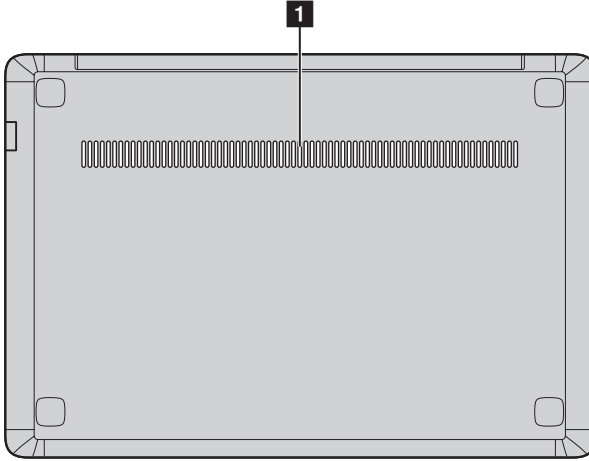
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■ **U310**



## Chapter 1. Getting to know your computer

### ■ U410



#### **1** Louvers

Allow air to enter the computer for cooling.

## Chapter 2. Learning the basics

### ■ ■ First use

---

#### ■ Reading the manuals

Read the supplied manuals before using your computer.

#### ■ Connecting to the power

The built-in battery pack is not fully charged at purchase.

To charge the battery and begin using your computer, connect the computer to an electrical outlet. The battery is automatically charged while the computer is running on AC power.

#### **Connecting the computer to an electrical outlet**

- ① Connect the power cord to the AC adapter.
- ② Connect the AC adapter to the AC power adapter jack of the computer firmly.
- ③ Plug the power cord into an electrical outlet.

#### ■ Turning on the computer

Press the power button to turn on the computer.

## Chapter 2. Learning the basics

### ■ ■ Using AC adapter and battery

---

#### ■ Checking battery status

You can determine the percentage of battery power remaining by checking the battery icon in the notification area.

**Note:** As each computer user has different habits and needs, it is difficult to predict how long a battery charge will last. There are two main factors:

- The amount of energy stored in the battery when you commence work.
- The way you use your computer: for example, how often you access the hard disk drive and how bright you make the computer display.

#### ■ Charging the battery

If the battery power is low, you need to charge the battery.

You need to charge the battery in any of the following situations:

- If the battery status indicator starts blinking
- If the battery has not been used for a long time

**Note:**

- To increase the life of the battery pack, the computer does not start recharging the battery immediately after it drops from fully charged.
- Charge the battery at a temperature between 50 °F and 86 °F (10 °C-30 °C).
- Full charge or discharge is not required.

#### ■ Battery Protection

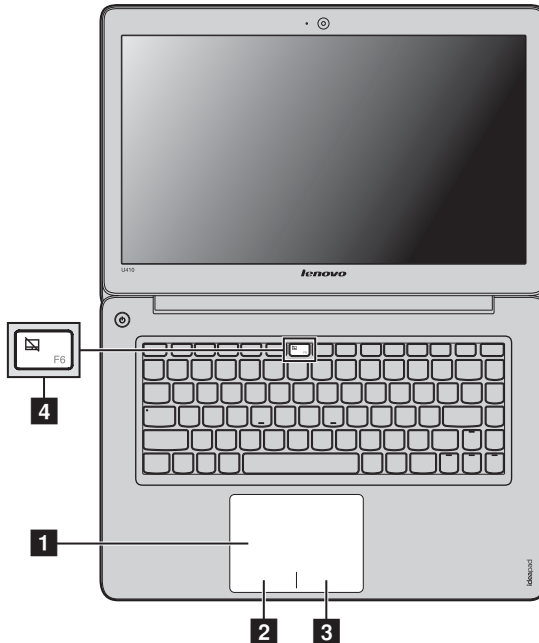
If the battery pack remains idle for a long time, the battery may be over-discharged, and its degradation speed may be increased. The battery pack of IdeaPad U series uses the battery protection technology. When your computer remains idle for a long time, the battery pack enters the sleep mode to avoid over-discharge. After the battery pack enters the sleep mode, you cannot turn the computer on without using the power adapter. Please connect the power adapter to the computer to activate the battery pack.

**Note:** The batter pack is in the sleep mode by default. When you use the computer for the first time, please plug the power adapter into it. Otherwise, the computer cannot be turned on.



### ■ ■ Using the touchpad

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**1 Touchpad**

To move the cursor on the screen, slide your fingertip over the pad in the direction in which you want the cursor to move.

**2 Left-click area**

The function corresponds to that of the left mouse button on a conventional mouse, which can be implemented by clicking this area.

**3 Right-click area**

The function corresponds to that of the right mouse button on a conventional mouse, which can be implemented by clicking this area.

**Note:** You can enable/disable the touchpad by pressing **4**.

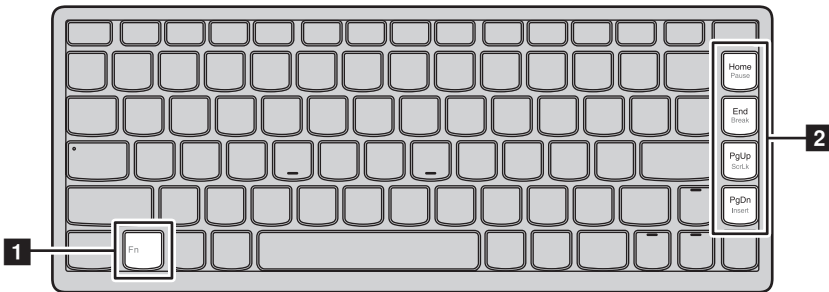
## Chapter 2. Learning the basics

### ■ ■ Using the keyboard

Your computer has function keys incorporated in its standard keyboard.

#### ■ Function key combinations

By pressing the appropriate function keys, you can change system settings instantly. To use this function, press and hold **Fn 1**, then press one of the function keys **2**.



The following describes the features of each function key.

**Fn + Home:** Activate the pause function.

**Fn + End:** Activate the break function.

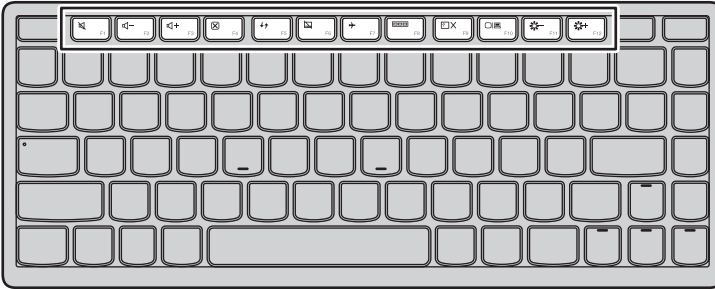
**Fn + PgUp:** Enable/Disable the scroll lock.

**Fn + PgDn:** Activate the insert function.

### ■ Hotkeys

#### Using hotkeys

The hotkeys are located in the function key row of the keyboard.



By pressing the appropriate hotkey, you can change system settings instantly. The following describes the function of each hotkey.



Mute/Unmute.



Decrease sound volume.



Increase sound volume.



Close active window or program.



Refresh desktop or Web pages.



Enable/Disable the touchpad.



Enable/disable Airplane mode.



Display all currently active apps.



Turn on/off the backlight of the LCD screen.



Open the interface for changing display devices.



Decrease display brightness.



Increase display brightness.

## Chapter 2. Learning the basics

### Setting hotkey mode

By default, the hotkey functions are accessible by pressing the appropriate hotkey. However, you can disable the hotkey mode in the BIOS setup utility. To disable the hotkey mode:

- ❶ Shut down the computer.
- ❷ Press the Novo button and then select **BIOS Setup**.
- ❸ In the BIOS setup utility, open the **Configuration** menu, and change the setting of **HotKey Switch** from **Hotkey Mode** to **Legacy Mode**.
- ❹ Open the **Exit** menu, and select **Exit Saving Changes**.

**Note:** When hotkey mode is disabled, press the **Fn** key and the appropriate hotkey to access the corresponding hotkey function.

### ■ ■ Connecting external devices

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Your computer has a wide range of built-in features and connection capabilities.

### ■ Using memory cards (not supplied)

Your computer supports the following types of memory cards:

- Secure Digital (SD) card
- MultiMediaCard (MMC)

**Note:**

- Insert **ONLY** one card in the slot at a time.
- This card reader does not support SDIO devices (e.g., SDIO Bluetooth, etc.).

### Inserting a memory card

- ➊ Push the dummy card until you hear a click. Gently pull the dummy card out of the memory card slot.

**Note:** The dummy card is used for preventing dust and small particles from entering the inside of your computer when the memory card slot is not in use. Retain the dummy card for future use.

- ➋ Slide the memory card in until it clicks into place.

### Removing a memory card

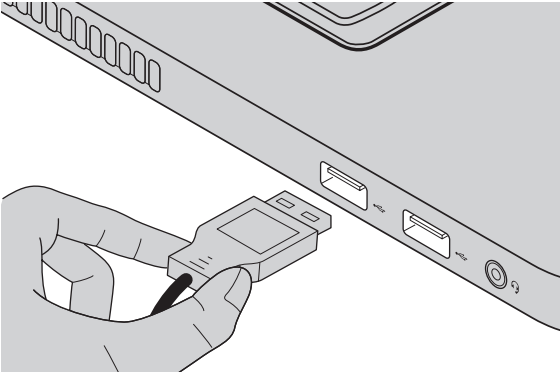
- ➊ Push the memory card until you hear a click.
- ➋ Gently pull the memory card out of the memory card slot.

**Note:** Before removing the memory card, disable it via Windows safely remove hardware and eject media utility to avoid data corruption.

## Chapter 2. Learning the basics

### ■ Connecting USB devices

You can connect a USB device to your computer by inserting its USB plug (Type A) into the USB port on your computer.



The first time you plug a USB device into a particular USB port on your computer, Windows automatically installs a driver for that device. After the driver is installed, you can disconnect and reconnect the device without performing any additional steps.

**Note:** Typically, Windows detects a new device after connecting it, and then installs the driver automatically. However, some devices may require you to install the driver before connecting. Check the documentation provided by the device's manufacturer before connecting the device.

Before disconnecting a USB storage device, make sure your computer has finished transferring data by that device. Click the **Safely Remove Hardware and Eject Media** icon in the notification area of Windows to remove the device before disconnecting.

**Note:** If your USB device uses a power cord, connect the device to a power source before connecting it. Otherwise, the device may not be recognized.

### ■ Connecting *Bluetooth* enabled device (on select models)

If your computer has an integrated *Bluetooth* adapter card, it can connect to and transfer data wirelessly to other *Bluetooth* enabled devices, such as notebook computers, PDAs and cell phones. You can transfer data between these devices without cables and up to 10 meters range in open space.

**Note:** The actual maximum range may vary due to interference and transmission barriers. To get the best possible connection speed, place the device as near your computer as possible.

### Enabling *Bluetooth* communications on your computer

To enable *Bluetooth* functions, do one of the following:

- Press  to disable airplane mode.
- Open the charms and select **Settings**  →  to open the Network configuration page. Then toggle the airplane mode switch to **off**.

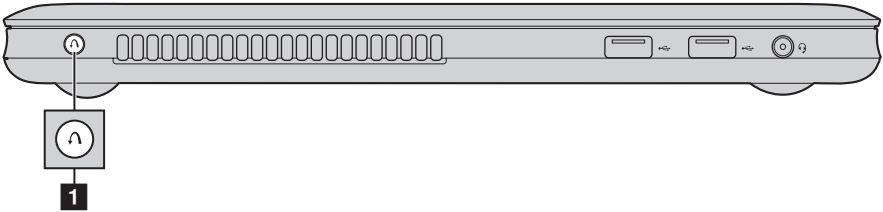
**Note:**

- When you do not need to use the *Bluetooth* function, turn it off to save battery power.
- You need to pair the *Bluetooth* enabled device with your computer before you can transfer data between them. Read the documentation supplied with the *Bluetooth* enabled device for details on how to pair the device with your computer.

## Chapter 2. Learning the basics

### ■ ■ Special keys and buttons

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#### ■ ■ Novo button 1

- When the computer is off, press this button to start the Lenovo OneKey Recovery system or the BIOS setup utility, or to enter the boot menu.

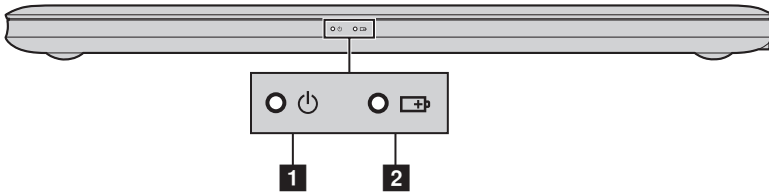
**Note:** For details, see “Chapter 5. Lenovo OneKey Recovery system” on page 34.




### ■ ■ System status indicators

---



These indicators inform you of the computer status.



**1** Power status indicator 

**2** Battery status indicator 

## Chapter 2. Learning the basics

No.	Symbol	Indicator	Indicator status	Meaning
<b>1</b>		Power	On (solid white)	The computer is powered on.
			Blinking	The computer is in sleep mode.
			Off	The computer is powered off.
<b>2</b>		Battery	On (solid white)	The battery has more than 20% charge.
			Solid amber	The battery has between 5% and 20% charge.
			Fast blinking amber	The battery has less than 5% charge.
			Slow blinking amber	The battery is being charged. When battery charge reaches 20%, the blinking color changes to white.
			Slow blinking white	The battery has between 20% and 80% charge and is still charging. When the battery reaches 80% charge the light will stop blinking, but charging will continue until the battery is fully charged.
			Off	The battery is detached.

### ■ ■ Securing your computer

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This section provides information about how to help protect your computer from theft and unauthorized use.

#### ■ Using passwords

Using passwords helps prevent your computer from being used by others. Once you set a password and enable it, a prompt appears on the screen each time you power on the computer. Enter your password at the prompt. The computer cannot be used unless you enter the correct password.

**Note:** This password can be from one to seven alphanumeric characters in any combination.

For details about how to set the password, see the Help to the right of the screen in BIOS setup utility.

To start the BIOS setup utility:

- ① Shut down the computer.
- ② Press the Novo button and then select **BIOS Setup**.

# Chapter 3. Starting to use Windows 8

## ■ ■ Configuring the operating system for the first time

---

You may need to configure the operating system when it is first used. The configuration process may include the procedures below:

- Accepting the end user license agreement
- Configuring the Internet connection
- Registering the operating system
- Creating a user account

## ■ ■ Operating system interfaces

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Windows 8 comes with two main user interfaces: the Start screen and the Windows desktop.

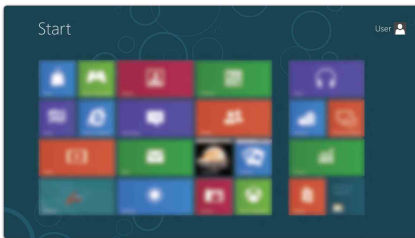
To switch from the Start screen to the Windows desktop, do one of the following:

- Select the Windows desktop tile on the Start screen.
- Press the Windows button.
- Press the Windows key + D.

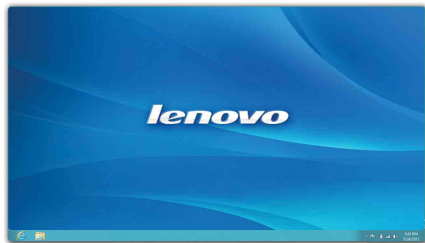
To switch from desktop to Start screen, do one of the following:

- Select **Start**  from charms.
- Move the cursor to the lower-left corner and then select the Start screen thumbnail when it is displayed.

### Start screen



### Desktop

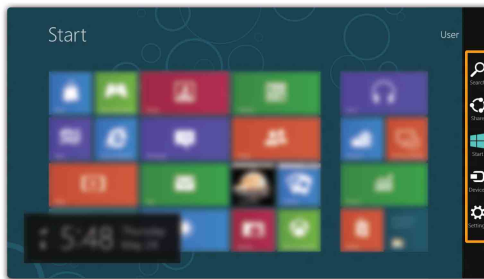


### ■ ■ The charms

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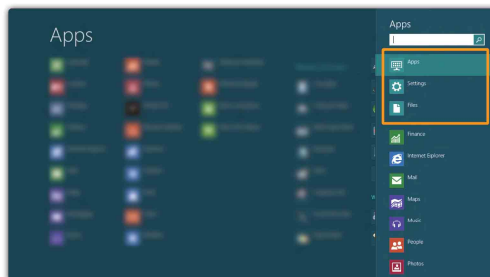
The five charms provide new and faster ways to perform many basic tasks, and are always available regardless of whichever app you are currently in. To display the charms, do one of the following:

- Move the cursor to the upper-right or lower-right corner until the charms bar is displayed.
- Use one finger to swipe in from the right edge of the screen until the charms bar is displayed.
- Press Windows key + C.



### Search charm

The **Search** charm is a powerful new way to find what you are looking for, including apps, settings and files.



## Chapter 3. Starting to use Windows 8

### Share charm

The **Share** charm lets you send links, photos, and more to your friends and social networks without leaving the app you are in.

### Start charm

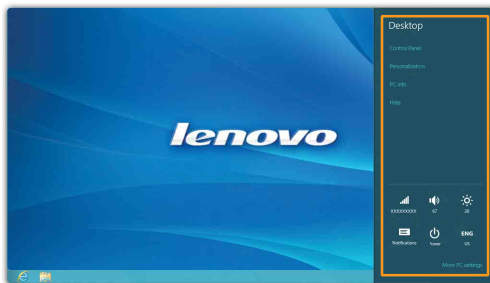
The **Start** charm is a fast way to go to the Start screen.

### Devices charm

The **Devices** charm allows you to connect or send files to any external devices, including digital cameras, TVs, or printers.

### Settings charm

The **Settings** charm lets you perform basic tasks, such as setting the volume or shutting down the computer. Also, you can get to the Control Panel through the **Settings** charm when on the Desktop screen.



## ■ ■ Putting the computer to sleep or shutting it down

---

When you have finished working with your computer, you can put it to sleep or shut it down.

### ■ Putting your computer to sleep

If you will be away from your computer for only a short time, put the computer to sleep.

When the computer is in sleep mode, you can quickly wake it to resume use, bypassing the startup process.

To put the computer to sleep, do one of the following:

- Close the display panel.
- Press the power button.
- Open the charms and then select **Settings**  → **Power**  → **Sleep**.

**Note:** Wait until the power indicator light starts blinking (indicating that the computer is in sleep mode) before you move your computer. Moving your computer while the hard disk is spinning can damage the hard disk, causing loss of data.


To wake the computer, do one of the following:

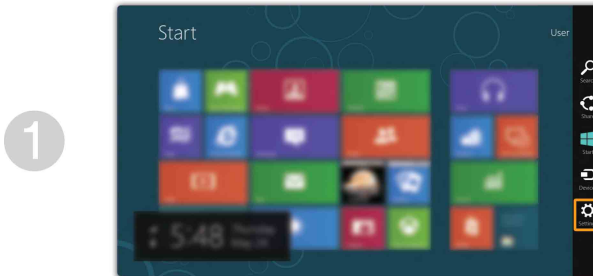
- Press the power button.
- Press any key on the keyboard.
- Press the Windows button.

## Chapter 3. Starting to use Windows 8

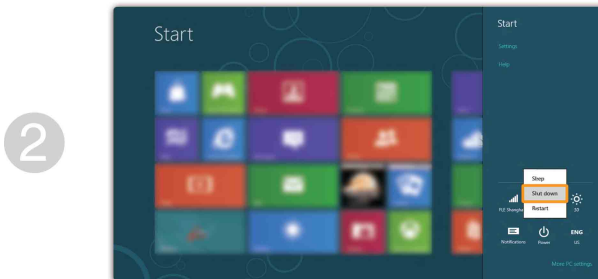
### ■ Shutting down the computer

If you are not going to use your computer for a long time, shut it down. To shut down your computer:

- 1 Open the charms, select **Settings** .



- 2 Select **Power**  → **Shut down**.



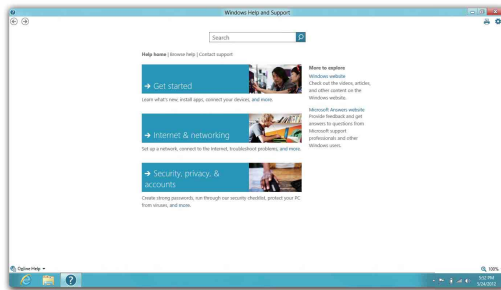


### ■ ■ Help and support

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If you have problem about the operating system, see the Windows Help and Support file. To open the Windows Help and Support file, do one of the following:

- Select **Settings** charm, then select **Help**.
- Press Windows key + **F1**.



You can read the Windows Help and Support file on your computer. You can also get online help and support by clicking on one of the two links listed under **More to explore**.

# Chapter 4. Connecting to the Internet

As a global network, the Internet connects computers worldwide, providing services such as e-mailing, information searching, electronic commerce, Web browsing and entertainment.

You can connect the computer to the Internet in the following way:

**Wired connection:** use physical wiring to connect.

**Wireless network technology:** connect without wiring.

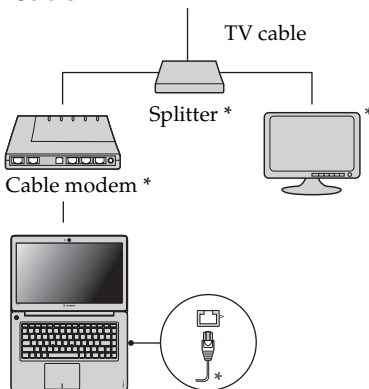
## ■ ■ Wired connection

Wired connections are a reliable and safe way to connect the computer to the Internet.

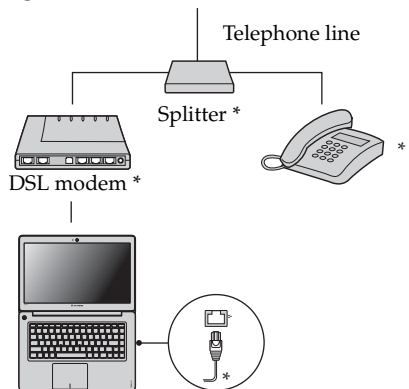
Cable	Cable Internet services use a cable modem connected to the residential cable TV line.
DSL	DSL is a family of related technologies that bring high-speed network access to homes and small businesses over ordinary telephone lines.

## ■ Hardware connection

### Cable



### DSL



\* Not supplied.

**Note:** The above diagrams are for reference only. Actual connection method may vary.

### ■ Software configuration

Consult your Internet Service Provider (ISP) for details on how to configure your computer.

## Chapter 4. Connecting to the Internet

### ■ ■ Wireless connection

---

Wireless connections provide mobile access to the Internet, allowing you to stay online anywhere the wireless signal covers.

Divided by the signal scales, wireless connection to the Internet can be built based on the following standards.

Wi-Fi	Wi-Fi networks cover a small physical area, like a home, office, or small group of buildings. An access point is necessary for the connection.
WiMAX	WiMAX networks connect several Wireless LAN systems to cover a metropolitan area, providing high-speed broadband access without the need for cables.

**Note:** Your computer may not support all wireless connection methods.

### ■ Connecting to wireless LAN

#### Enabling wireless connection

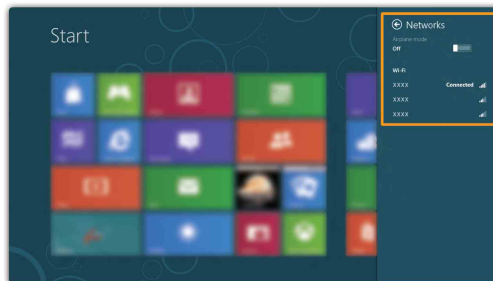
To enable wireless functions, do one of the following:

- Press  to disable airplane mode.
- Open the charms and select **Settings**  →  to open the Network configuration page. Then toggle the airplane mode switch to **off**.

#### Connecting to a wireless network

After wireless has been enabled, the computer will automatically scan for available wireless networks and display them in the wireless network list. To connect to a wireless network, click the network name in the list, and then click **Connect**.

**Note:** Some networks require a network security key or passphrase for connection. To connect to one of those networks, ask the network administrator or the Internet service provider (ISP) for the security key or passphrase.



# Chapter 5. Lenovo OneKey Recovery system

The Lenovo OneKey Recovery system is software designed to back up and restore your computer. You can use it to restore the system partition to its original status in case of a system failure. You can also create user backups for easy restoration as required.

**Note:** To utilize the features of the OneKey Recovery system, your hard disk already includes a hidden partition by default to store the system image file and the OneKey Recovery system program files. This default partition is hidden for security reasons, which explains why the available disk space is less than the stated capacity.

## ■ Backing up the system partition

You can back up the system partition to an image file. To back up the system partition:

- ➊ Press the Novo button to start the Lenovo OneKey Recovery system.
- ➋ Click **System Backup**.
- ➌ Select a back-up location and click **Next** to start the backup.

**Note:**

- You can choose a back-up location on the local hard disk drive or an external storage device.
- The back-up process may take a while.
- The back-up process is only available when Windows can be started normally.

## ■ Restoring

You can choose to restore the system partition to its original status or to a previously created back-up point. To restore the system partition:

- ➊ Press the Novo button to start the Lenovo OneKey Recovery system.
- ➋ Click **System Recovery**. The computer will restart to the recovery environment.
- ➌ Follow the on-screen instructions to restore the system partition to its original status or to a previously created back-up point.

**Note:**

- The recovery process is irreversible. Make sure to back up any data you wish to save on the system partition before starting the recovery process.
- The recovery process may take a while. So be sure to connect the AC adapter to your computer during the recovery process.
- The above instructions should be followed when Windows can be started normally.

If Windows cannot be started, then follow the steps below to start the Lenovo OneKey Recovery system:

- ➊ Shut down the computer.
- ➋ Press the Novo button. From the Novo button menu, select the Lenovo OneKey Recovery system and press Enter.

# Chapter 6. Troubleshooting

## ■ Frequently asked questions

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This section lists frequently asked questions by category.

### ■ Finding information

#### **What safety precautions should I follow when using my computer?**

The *Lenovo Safety and General Information Guide* which came with your computer contains safety precautions for using your computer. Read and follow all the precautions when using your computer.

#### **Where can I find the hardware specifications for my computer?**

You can find hardware specification for your computer from the printed flyers which came with your computer.

#### **Where can I find warranty information?**

For the warranty applicable to your computer, including the warranty period and type of warranty service, see the Lenovo limited warranty flyer that came with your computer.

### ■ Drivers and preinstalled software

#### **Where are the installation discs for Lenovo preinstalled software (desktop software)?**

Your computer did not come with installation discs for Lenovo preinstalled software. If you need to reinstall preinstalled software, you can find the installation program on the D partition of your hard disk. If you cannot find the installation program there, download it from Lenovo consumer support Website.

#### **Where can I find drivers for the various hardware devices of my computer?**

If your computer is preinstalled with a Windows operating system, Lenovo provides drivers for the hardware devices that you need on the D partition of your hard disk. You can also download the latest device drivers from Lenovo consumer support Website.

## Chapter 6. Troubleshooting

### ■ Lenovo OneKey Recovery system

#### Where are the recovery discs?

Your computer did not come with recovery discs. Use Lenovo OneKey Recovery system if you need to restore system to the factory status.

#### What can I do if the backup process fails?

If you can start backup but it fails during the backup process, try the following steps:

- ❶ Close all open programs, then restart the backup process.
- ❷ Check if the destination media is damaged. Select another path and then try again.

#### When do I need to restore the system to the factory status?

Use this feature when the operating system fails to start up. If there is critical data on the system partition, back it up before starting recovery.

### ■ BIOS setup utility

#### What is BIOS setup utility?

The BIOS setup utility is ROM-based software. It communicates basic computer information and provides options for setting boot devices, security, hardware mode, and other preferences.

#### How can I start the BIOS setup utility?

To start the BIOS setup utility:

- ❶ Shut down the computer.
- ❷ Press the Novo button and then select **BIOS Setup**.

#### How can I change the boot mode?

There are two boot modes: UEFI and Legacy. To change the boot mode, start the BIOS setup utility and set boot mode to UEFI or Legacy support on the boot menu.



### **When do I need to change the boot mode?**

The default boot mode for your computer is the UEFI mode. If you need to install legacy Windows operating system (operating system before Windows 8) on your computer, you must change the boot mode to Legacy support. The legacy Windows operating system cannot be installed if you don't change the boot mode.

### ■ **Getting help**

#### **How can I contact the customer support center?**

See “Chapter 3. Getting help and service” of *Lenovo Safety and General Information Guide*.

### ■ ■ Troubleshooting

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#### Display problems


When I turn on the computer, nothing appears on the screen.

- If the screen is blank, make sure that:
  - The AC adapter is connected to the computer and the power cord is plugged into a working electrical outlet.
  - The computer power is on. (Press the power button again for confirmation.)
- If these items are properly set, and the screen remains blank, have the computer serviced.

When I turn on the computer, only a white cursor appears on a blank screen.

- Restore backed-up files to your Windows environment or the entire contents of your hard disk to the original factory contents using OneKey Recovery system. If you still see only the cursor on the screen, have the computer serviced.

My screen goes blank while the computer is on.

- Your screen saver or power management may be enabled. Do one of the following to exit from the screen saver or to resume from Sleep mode:
  - Touch the touchpad.
  - Press any key on the keyboard.
  - Press the power button.
  - Press **F9** () to confirm whether the backlight for the LCD screen has been turned off.

### BIOS password problems

I forgot my password.

- If you forget your user password, you must ask the system administrator to reset your user password.
- If you forget your HDD password, a Lenovo authorized servicer cannot reset your password or recover data from the hard disk. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the hard disk drive replaced. Proof of purchase is required, and a fee will be charged for parts and service.
- If you forget your administrator password, a Lenovo authorized servicer cannot reset your password. You must take your computer to a Lenovo authorized servicer or a marketing representative to have the system board replaced. Proof of purchase is required, and a fee will be charged for parts and service.

### Sleep problems

The critical low-battery error message appears, and the computer immediately turns off.

The computer enters sleep mode immediately after Power-on self-test (POST).

- The battery power is getting low. Connect the AC adapter to the computer.
- Make sure that:
  - The battery is charged.
  - The operating temperature is within the acceptable range. See “Chapter 2. Use and care Information” of *Lenovo Safety and General Information Guide*.

**Note:** If the battery is charged and the temperature is within range, have the computer serviced.



## Chapter 6. Troubleshooting

The computer does not return from sleep mode and the computer does not work.

- If your computer is in sleep mode, connect the AC adapter to the computer, then press any key or the power button.
- If the system still does not return from sleep mode, your system has stopped responding, and you cannot turn off the computer; reset the computer. Unsaved data may be lost. To reset the computer, press and hold the power button for 4 seconds or more.

### Display panel problems

The screen is blank.

- Do the following:
  - If you are using the AC adapter, or using the battery, and the battery status indicator is on, press **F12** () to make the screen brighter.
  - If the power indicator is in blinking, press the power button to resume from the Sleep mode.
  - If the problem persists, follow the solution in the next problem "The screen is unreadable or distorted."
  - Press **F9** () to confirm whether the LCD screen has been turned off.

The screen is unreadable or distorted.

- Make sure that:
  - The display device driver is installed correctly.
  - The screen resolution and color quality are correctly set.
  - The monitor type is correct.

Incorrect characters appear on the screen.

- Are the operating system or programs installed correctly? If they are installed and configured correctly, have the computer serviced.

### Sound problems

No sound can be heard from the speaker even when the volume is turned up.

- Make sure that:
  - The Mute function is off.
  - The combo audio jack is not used.
  - The speaker is selected as the playback device.

### Battery problems

Your computer shuts down before the battery status indicator shows empty.

-or-

Your computer operates after the battery status indicator shows empty.

The computer does not operate with a fully charged battery.

- Discharge and recharge the battery.
- The surge protector in the battery might be active. Turn off the computer for one minute to reset the protector; then turn on the computer again.

### A hard disk drive problem

The hard disk drive does not work.

- In the **Boot** menu in BIOS setup utility, make sure that the hard disk drive is included in the **UEFI** correctly.

## Chapter 6. Troubleshooting

### Other problems

Your computer does not respond.

- To turn off your computer, press and hold the power button for 4 seconds or more. If the computer still does not respond, remove the AC adapter.
- Your computer might lock when it enters sleep mode during a communication operation. Disable the sleep timer when you are working on the network.

The computer does not start from a device you want.

- See the **Boot** menu of the BIOS setup utility. Make sure that the **UEFI** in the BIOS setup utility is set so that the computer starts from the device you want.
- Also make sure that the device from which the computer starts is enabled. In the **Boot** menu in the BIOS setup utility, make sure that the device is included in the **UEFI** list.
- While powered-off, press Novo button to select the device you want the computer starts from.

The connected external device does not work.

- Do not connect or disconnect any external device cables other than USB while the computer power is on; otherwise, you might damage your computer.
- When using a high power consumption external devices such as an external USB optical disk drive, use external device power adapter. Otherwise, the device may not be recognized, or system shut down may result.

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