Read the safety notices and important tips in the included manuals before using your computer.
The Regulatory Notice provides information about the radio frequency and safety standards. Be sure to read it before using wireless devices on your computer.

To refer to it, go to http://www.lenovo.com, click Support, and then click User’s guides and manuals.
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Chapter 1. Getting to know your computer

Top view

Note: The dashed areas indicate parts that are not visible externally.

Attention:

- 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.
## Chapter 1. Getting to know your computer

<table>
<thead>
<tr>
<th>1</th>
<th>Integrated camera (select models only)</th>
<th>Use the camera for video communication.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Multi-touch screen</td>
<td>Functions as both the visual display as well as one of the two primary input methods.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: For details, see “Touch screen operation” on page 18.</td>
<td></td>
</tr>
</tbody>
</table>
| 3 | Windows button | Press this button to:  
|   | Toggle between the current view and the Start screen.  
|   | - or -  
|   | Wake up the computer from sleep mode. |
| 4 | Touchpad | The touchpad functions as a conventional mouse. |
|   | **Touchpad**: To move the pointer on the screen, slide your fingertip over the pad in the direction in which you want the pointer to move.  
|   | **Touchpad buttons**: The functions of the left/right side correspond to that of the left/right mouse button on a conventional mouse. |
|   | **Note**: You can enable/disable the touchpad by pressing F6 ( ). |
| 5 | Wireless LAN antennas | Connect to the wireless LAN adapter to send and receive wireless radio. |
Keyboard function keys

You can access certain system settings quickly by pressing the appropriate function keys.

- \( \text{Mutes/unmutes the sound.} \)
- \( \text{Enables/disables Airplane mode.} \)
- \( \text{Decreases the volume level.} \)
- \( \text{Displays all currently active apps.} \)
- \( \text{Increases the volume level.} \)
- \( \text{Toggles the display between the computer and an external device.} \)
- \( \text{Closes the currently active window.} \)
- \( \text{Decreases display brightness.} \)
- \( \text{Refreshes the desktop or the currently active window.} \)
- \( \text{Increases display brightness.} \)
- \( \text{Enables/disables the touchpad.} \)

**Note:** The screen brightness is set automatically (based on the ambient light level) by default. If you want to adjust the brightness of the screen manually, open the Charms bar and select **Settings → Change PC settings → General → Screen (Adjust my screen brightness automatically)** and toggle the switch to **Off.**
Chapter 1. Getting to know your computer

- **Screen orientation**
  You can rotate the display panel to your preferred orientation.
  - The orientation of the display automatically changes (alternating between portrait and landscape modes) depending upon how you hold the computer.

- To prevent automatic orientation, press the screen rotation lock button. It is located on the right edge of the computer. (See below illustration).
Positioning the display panel
The display panel can be opened to any angle up to 360 degrees.

Notebook Mode
Suitable for tasks that require a keyboard and mouse (such as creating documents, writing e-mails, and so on).
Chapter 1. Getting to know your computer

Stand Mode (Theater Mode)

Suitable for tasks that require little or no touch (such as viewing photos or playing videos).

Tablet Mode

Suitable for tasks that require touching the screen often (such as surfing the Web, playing games, and so on).
Watch Mode (Presentation Mode)

Suitable for tasks that require limited interaction with the touch screen (such as displaying graphs or a PowerPoint presentation).

⚠️ **Attention:**
- Do *not* open the display with too much force, otherwise the panel or hinges may be damaged.

**Notes:**
- The keyboard and touchpad are automatically locked when the screen is opened beyond 190 degrees (approximately).
- In tablet mode, only the following buttons can be used:
  - Windows button
  - Volume Up button
  - Volume Down button
  - Screen rotation lock button
Chapter 1. Getting to know your computer

Left-side view

1 Volume down button  Decreases volume level.
2 Volume up button  Increases volume level.
3 Speaker  Provides audio output.
4 Built-in microphone  Captures sound which can be used for video conferencing, voice narration, or audio recording.
5 HDMI port  Connects to devices with HDMI input such as a TV or an external display.
6 USB port  Connects to USB devices.

Note: For details, see “Connecting USB devices” on page 9.
7 Combo audio jack  Connects to headsets.

Notes:
- The combo audio jack does not support conventional microphones.
- The recording function may not be supported if third-party headphones or headsets are connected, due to different industry standards.
Connecting USB devices

Your computer comes with two USB ports compatible with USB devices.

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 has been 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** 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.
Chapter 1. Getting to know your computer

Right-side view

1 **Screen rotation lock button**

   Keeps the screen locked in portrait or landscape orientation. Locking the screen rotation will disable the gravity sensing function, thereby preventing the screen from changing its orientation automatically depending upon the angle at which it is held.

2 **Speaker**

   Provides audio output.

3 **USB port**

   Connects to USB devices.
   
   **Note:** For details, see “Connecting USB devices” on page 9.

4 **Memory card slot**

   Insert memory cards (not supplied) here.
   
   **Note:** For details, see “Using memory cards (not supplied)” on page 11.

5 **AC power adapter jack**

   Connect the AC power adapter here.
Using memory cards (not supplied)

Your computer supports the following type of memory card:
• Secure Digital (SD) card

Notes:
• 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
1. Push the dummy card in until you hear a click.
2. 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.

3. Slide the memory card in until it clicks into place.

Removing a memory card
1. Push the memory card in until you hear a click.
2. Gently pull the memory card out of the memory card slot.

Note: Before removing the memory card, disable it by using the Windows safely remove hardware and eject media utility to avoid data corruption.
Chapter 1. Getting to know your computer

Front view

1. Power button
   Press this button to turn on the computer.

2. Battery status indicator

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Indicator status</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Power Indicator" /></td>
<td>On (white)</td>
<td>The computer is on and is connected to an electrical power source through the AC power adapter. The computer is off and is connected to an electrical power source through the AC power adapter. The computer is in standby mode and is connected to an electrical power source through the AC power adapter.</td>
</tr>
<tr>
<td><img src="image" alt="Battery Indicator" /></td>
<td>Blinking (amber)</td>
<td>There is a problem with the battery or the battery connection, and the computer is connected to an electrical power source through the AC power adapter.</td>
</tr>
<tr>
<td><img src="image" alt="Power Indicator" /></td>
<td>Off</td>
<td>The computer is on and is disconnected from the AC power adapter. The computer is off and is disconnected from the AC power adapter. The computer is in standby mode and is disconnected from the AC power adapter.</td>
</tr>
</tbody>
</table>

Note: When disconnected from the AC power adapter, the operating system will display an on-screen notification to warn you when the battery’s charge reaches low and critical power levels.
Chapter 2. 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

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 the Charms.
- Move the pointer to the lower-left corner and then select the Start screen thumbnail when it is displayed.
The Charms

The five Charms provide new and faster ways to perform many basic tasks, and are always available regardless of which app you are currently in.

To display the Charms, do one of the following:
- Move the pointer 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 whatever you are looking for, including apps, settings and files.
Chapter 2. 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, such as 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 using 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 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: Put your computer to sleep before you move it. 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 any key on the keyboard. (Cannot be used in Tablet mode.)
- Press the power button.
- Press the Windows button.
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, and then select **Settings**.

2. Select **Power** → **Shut down**.
Chapter 2. Starting to use Windows 8

Touch screen operation

The display panel can accept inputs like a tablet, using the multi-touch screen, or like a traditional notebook computer, using the keyboard and touchpad.

Multi-touch gestures

You can touch the screen with one or more fingertips to perform a variety of tasks.

<table>
<thead>
<tr>
<th>Frequently used gestures</th>
<th>Tasks performed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tap</strong></td>
<td></td>
</tr>
<tr>
<td>Tap</td>
<td></td>
</tr>
<tr>
<td>Tap once on an item</td>
<td>Performs an action, such as starting an app, opening a link, or performing a command. Similar to left-clicking with a mouse.</td>
</tr>
<tr>
<td><strong>Press and hold</strong></td>
<td></td>
</tr>
<tr>
<td>Press your finger down</td>
<td></td>
</tr>
<tr>
<td>and leave it there for a</td>
<td></td>
</tr>
<tr>
<td>moment.</td>
<td>Allows you to see detailed information before selecting an action. Can also open a menu with more options. Similar to right-clicking with a mouse.</td>
</tr>
</tbody>
</table>
Frequently used gestures | Tasks performed
--- | ---
**Pinch**
Move two fingers together or apart while touching the screen. | Zooms in and out on visual apps, such as pictures and maps. Can also jump to the beginning or end of a list.

**Rotate**
Place two or more fingers on an item and then turn your hand. | Turns an object. (Note: Not all items can be rotated, depending upon the app.)

**Slide**
Drag your finger across the screen. | Pans or scrolls through lists and pages. Can also move an object or be used to draw or write, depending upon app. Similar to pressing and holding to pan and to scrolling with a mouse.
Frequently used gestures | Tasks performed
--- | ---
**Swipe**  
Start from any edge of the screen, then swipe inwards toward the center. | Swiping down from the top edge or up from the bottom edge displays a task bar on the bottom of the screen with app commands, including save, edit, and delete.

If you have an app currently open, you can also:
- Swipe from the top edge to halfway down the screen without lifting your finger to dock that app on the left or right side of the screen. This allows you to keep two apps open simultaneously in a split-screen format.
- Swipe from the top edge straight down to the bottom edge of the screen continuously without lifting your finger to close the currently open app.
Frequently used gestures | Tasks performed
--- | ---
Swiping in from the left edge can:
• Bring in and open an app currently running in the background.

If there is more than one currently open app, you can:
• Swipe in from the left to bring in an app and, without lifting your finger, push that app back off the left edge of the screen quickly. This displays a list of the apps currently running in the background.

Swiping in from the right edge of the screen displays the Charms.
Connecting to wireless LAN

Enabling wireless connection

To confirm that Airplane mode is disabled, go to the desktop and check the notification area. If you see the icon displayed on the lower right, then Airplane mode is on. Otherwise, wireless function is enabled.

**Note:** Airplane mode should be disabled by default.

If Airplane mode is on, do one of the following to enable the wireless function:

- Press F7 ( ) to disable Airplane mode.

- Open the Charms and select **Settings** → to open the Network configuration page, and then toggle the Airplane mode switch to **Off**.

Connecting to a wireless LAN

After wireless has been enabled, the computer will automatically scan for available wireless networks and display them in the wireless LAN 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.
Recovery system

Introduction

Push-button Reset is a built-in recovery tool that allows users to restore their operating system to its original state while preserving their data and important customizations, without the need to back up their data in advance.

The following Push-button Reset features are available to users from multiple locations within Windows:

Refreshing the computer
Fixes software problems by reinstalling the factory default configuration while preserving the user’s data, important settings, and any Windows Store apps previously purchased from the Windows Store.

Resetting the computer
Prepares the computer for recycling or for the transfer of ownership by reinstalling the factory default configuration and returning all user data and applications to the state of their original Out-of-Box Experience (OOBE).

Using Push-Button Reset

When the computer can start, Push-button Reset can be normally launched from:

- Windows PC Settings
- Control Panel
- Settings charm:
  1. Select Power.
  2. Press and hold the Shift key while selecting Restart.
  3. Select Troubleshoot from the Choose an option window.

When the on-disk recovery environment cannot be started, Push-button Reset can be launched from:

- Boot options menu (automatic)
- Bootable USB flash drive

Follow the on-screen instructions and restart the system for the changes to take effect.

For more instructions, see the Windows Help and Support file on your computer.
Chapter 2. Starting to use Windows 8

Help and support

If you have any problems using 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 3. Troubleshooting

Frequently asked questions

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 the hardware specifications for your computer on 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 (desktop) software?
Your computer did not come with any installation discs for Lenovo preinstalled software. If you need to reinstall any preinstalled software, you can find the installation program located on the D partition of your hard disk. If you cannot find the installation program there, you can also download it from the 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 all the hardware devices that you need on the D partition of your hard disk. You can also download the latest device drivers from the Lenovo consumer support website.

Getting help

How can I contact the customer support center?
Chapter 3. Troubleshooting

# Troubleshooting

If you do not find your problem here, see Chapter 1. The following section only describes problems that might negate the need to refer to the more comprehensive information in Chapter 1.

## 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.

My screen goes blank while the computer is on.

- Your power management is enabled. Do one of the following to resume from sleep mode:
  - Press any key on the keyboard. (Cannot be used in Tablet mode.)
  - Press the power button.
  - Press the Windows button.

## Sleep problems

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

- The battery power is getting low. Connect the AC adapter to the computer.

The computer enters sleep mode immediately after Power-on.

- Make sure that:
  - The battery is charged.
  - The operating temperature is within the acceptable range.
- If the battery is charged and the temperature is within range, have the computer serviced.

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

- If the computer does not return from sleep mode, the battery may be depleted. Check the power indicator.
- If your computer is in sleep mode, connect the AC adapter to the computer, then press the Windows button or the power button.
- If your computer is powered-off, connect the AC adapter to the computer, then press the power button to resume operation.
- 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 5 seconds or more. If the computer still does not reset, remove the AC adapter.

---

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

Note: 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 5 seconds or more. If the computer still does not reset, remove the AC adapter.
Chapter 3. Troubleshooting

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 (Menu) to make the screen brighter.
  - If the power indicator is blinking, press the power button to resume from sleep mode.
  - If the problem persists, follow the solution in the next problem “The screen is unreadable or distorted.”

The screen is unreadable or distorted.

- Make sure that:
  - 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 being used.
  - Speakers are 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.

- Recharge the battery.

A startup problem

The Microsoft® Windows operating system does not start.

- For details, see “Recovery system” on page 23.

Recovery system problems

Fail to restore system partition to factory default.

- The system partition, such as the partition size or the drive capacity of C, has been modified.
Chapter 3. Troubleshooting

Other problems

Your computer does not respond.

- To turn off your computer, press and hold the power button for 5 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 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 an external device power adapter. Otherwise, the device may not be recognized, or the system may shut down as a result.
Trademarks

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Lenovo
IdeaPad

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.
The Regulatory Notice provides information about the radio frequency and safety standards. Be sure to read it before using wireless devices on your computer.

To refer to it, go to http://www.lenovo.com, click Support, and then click User’s guides and manuals.
Read the safety notices and important tips in the included manuals before using your computer.