

Lenovo IdeaPad Y650

User Guide v1.0

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Note

Before using this information and the product it supports, be sure to read the following:

- Chapter 6. Safety, Use, and Care Information on page 55.
- Appendix D. Notices on page 104.
- *OneKey Rescue System User Guide* included in the package with this publication.

lenovo



**If your product is not working correctly,
DO NOT RETURN IT TO THE STORE.**

For technical assistance, contact a Lenovo support specialist 24 hours a day by calling toll free **1-877-4 LENOVO (1-877-453-6686)**.

Additionally, you can find support information and updates on the Lenovo Web site located at **<http://consumersupport.lenovo.com>**.

* Only for the users from the United States.

First Edition (December 2008)

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ENERGY STAR model information



ENERGY STAR[®] is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy aimed at saving money and protecting the environment through energy efficient products and practices.

Lenovo[®] is proud to offer our customers products with an ENERGY STAR compliant designation. Lenovo computers of the following machine types, if the ENERGY STAR mark is affixed, have been designed and tested to conform to the ENERGY STAR 4.0 program requirements for computers.

- 20016
- 4185

By using ENERGY STAR compliant products and taking advantage of the power-management features of your computer, you reduce the consumption of electricity. Reduced electrical consumption contributes to potential financial savings, a cleaner environment, and the reduction of greenhouse gas emissions.

For more information about ENERGY STAR, visit

<http://www.energystar.gov>.

Lenovo encourages you to make efficient use of energy an integral part of your day-to-day operations. To help in this endeavor, Lenovo has preset the following power-management features to take effect when your computer has been inactive for a specified duration:

Table 1. ENERGY STAR power-management features, by operating system

Windows XP	Windows Vista
<ul style="list-style-type: none">• Turn off monitor: After 10 minutes• Turn off hard disks: After 30 minutes• System standby: After 20 minutes• System hibernates: After 2 hours	<p>Power plan: Balanced</p> <ul style="list-style-type: none">• Turn off the display: After 10 minutes• Put the computer to sleep: After 25 minutes• Advanced power settings:<ul style="list-style-type: none">- Turn off hard disks: After 20 minutes- Hibernate: After 1 hour

To awaken your computer from a Sleep or System Standby mode, press any key on your keyboard. For more information about these settings, refer to your Windows Help and Support information system.

Explanation of hard disk capacity

Dear user,

While using your computer, you may discover that the nominal hard disk capacity indicated is somewhat different from the disk capacity displayed by the operating system. For example, a nominal 40GB hard disk will appear as less than 40GB in the operating system. This discrepancy is not an error in hard disk installation nor any other problem, but a normal phenomenon of computers. This phenomenon is primarily due to the following reasons:

I. Different standards used by the manufacturer and operating system when calculating hard disk capacity

Hard disk manufacturers use a radix of 1000, i.e. 1G = 1,000MB, 1MB = 1,000KB, 1KB = 1,000 bytes. However, when identifying hard disk capacity, operating systems use a radix of 1024, i.e. 1GB = 1,024MB, 1MB = 1,024KB, 1KB = 1,024 bytes. The standard adopted by your computer is that of the hard disk manufacturers. Since the standards adopted by the hard disk manufacturer and operating system are different, the hard disk capacity displayed by the operating system will be different from the nominal hard disk capacity.

For example, if the hard disk is nominally X G, even when it is completely empty, the capacity displayed by the operating system will be:

$$X \times 1000 \times 1000 \times 1000 / (1024 \times 1024 \times 1024) \approx X \times 0.931 \text{ G}$$

If a portion of the hard disk space has been used for some specific purpose, then the capacity indicated by the operating system will be even less than $X \times 0.931$ G.

II. A portion of the hard disk space is used for specific purposes

Lenovo computers come with preinstalled OneKey Rescue System, so the hard disk has a special portion partitioned before delivery, which is used to store hard disk mirror and OneKey Rescue System program files. The size of the reserved space for this partition varies according to the model, operating system and software of the computer. For the sake of safety, this partition is not evident, which is commonly referred to as a “hidden partition”.

In addition, after the hard disk is partitioned or formatted, the system will assign a certain amount of hard disk space for the system files.

For the above reasons, the available hard disk space indicated by the operating system is always less than the computer’s nominal hard disk capacity.

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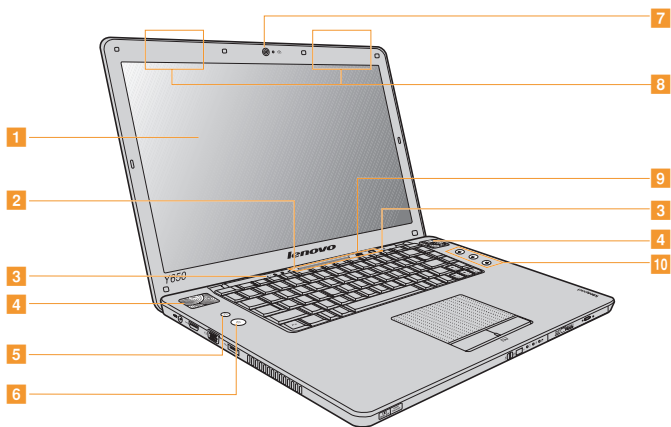
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Chapter 1. Getting to Know Your Computer

■ ■ Top view



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

Chapter 1. Getting to Know Your Computer

1 Computer display

The color display provides clear and brilliant text and graphics.

2 Ambient Light Sensor

The Ambient Light Sensor detects the environmental illuminance and automatically adjusts the panel brightness of the display accordingly, if enabled.

You may enable/disable the Ambient Light Sensor in Lenovo Energy Management.

3 Built-in array microphone

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

4 Speakers

The JBL certificated speakers provide rich and powerful sound.

5 OneKey Rescue System button 16

6 Power button

7 Integrated camera 19

8 Wireless LAN antennas

An isotropic antenna system is built into the display for optimal reception, enabling wireless communication wherever you are.

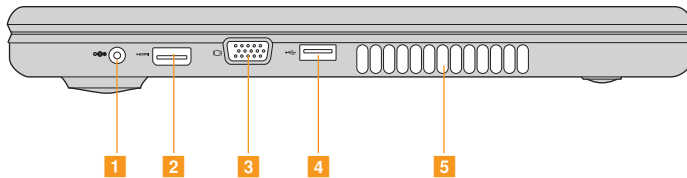
9 Touch inductive panel..... 14

10 Volume buttons

Turn up/down or mute the volume with volume buttons.

Chapter 1. Getting to Know Your Computer

■ ■ Left-side view



1 AC power adapter jack

Connect the power adapter here to supply power to the computer and charge the battery pack.

❖ Note:

To prevent damage to the computer and battery pack, use the supplied AC adapter only.

2 HDMI port..... 34

3 VGA port 33

4 USB port 28

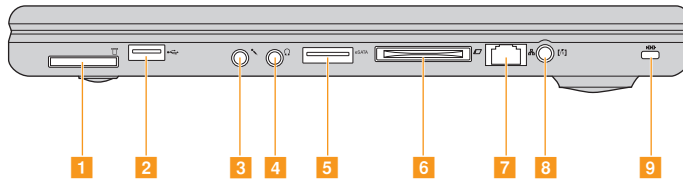
5 Fan louvers

⇒ Important:

Make sure that none of the fan louvers are blocked, otherwise, overheating of the computer may occur.

Chapter 1. Getting to Know Your Computer

■ ■ Right-side view



1	Card reader socket.....	17
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5	eSATA port.....	30

Chapter 1. Getting to Know Your Computer

6 ExpressCard® slot 31

7 RJ-45 port 20

8 TV-in jack (specific models only)

Use this jack to connect with TV signal cable through the provided TV adapter (Analog/digital input supported).

9 Security keyhole

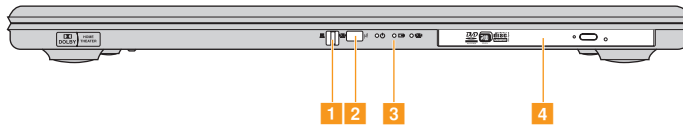
Your computer comes with a security keyhole. You can purchase a security cable and lock to fit this keyhole.

❖ **Note:**

Before purchasing any security product, verify that it is compatible with this type of security keyhole.

Chapter 1. Getting to Know Your Computer

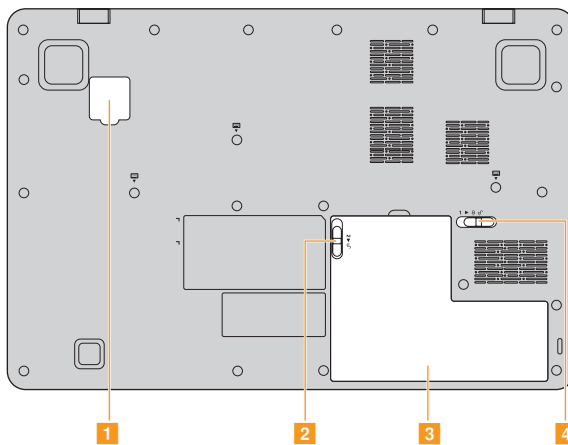
■ Front view



- 1 Integrated wireless device switch**
Use this switch to disable the wireless radio of all the wireless devices on your computer.
- 2 CIR port** 19
CIR port, used for lenovo remote control.
- 3 System status indicators**
- 4 Optical drive** 17

Chapter 1. Getting to Know Your Computer

■ ■ Bottom view



Chapter 1. Getting to Know Your Computer

1 SIM card slot (specific models only)

2 Battery latch - spring loaded

The spring-loaded battery latch keeps the battery pack secured in place. When you insert a battery pack, this latch automatically secures the battery in place. To remove the battery, hold this latch in the unlocked position.

3 Battery pack..... 24

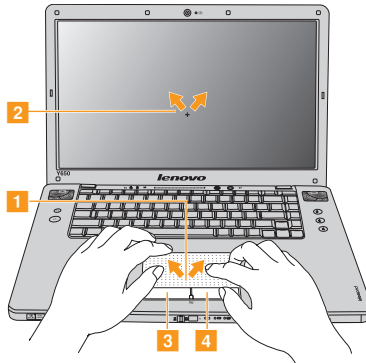
4 Battery latch - manual

The manual battery latch is used to keep the battery pack secured. Move the manual battery latch to the unlocked position to insert or remove the battery pack. Move the manual latch to the locked position after inserting the battery pack.

Chapter 2. Using Your Computer

■ ■ Using the touch pad

The touch pad consists of a pad **1** and two click buttons below the keyboard. To move the cursor **2** on the screen, slide your fingertip over the pad in the direction in which you want the cursor to move. The functions of the left **3** and right **4** click buttons correspond to those of the left and right mouse buttons on a conventional mouse.



❖ **Note:**

You can also attach and use a USB mouse through the USB connector. For details, see “Connecting a Universal Serial Bus (USB) device” on page 28.

Chapter 2. Using Your Computer

■ Gestures

The touch pad can recognize some gestures and make actions like zoom in/out, or scroll up/down easily.

Chiralmotion

Slide your finger to the right side/bottom of the touch pad until you see the scroll mark, then draw on the touch pad in a twisting motion. Draw clockwise or counterclockwise to scroll the page down/left or up/right.

Pinch

Use two fingers and make a pinch gesture on the touch pad to zoom out; reverse the gesture to zoom in.

■ Palm Check

To prevent mis-touch, the touch pad ignores big active area motions, like any movement at the touch pad with your palm, you may set the area size by "Synaptics Pointing Device" in the lower right corner of the desktop.

Chapter 2. Using Your Computer

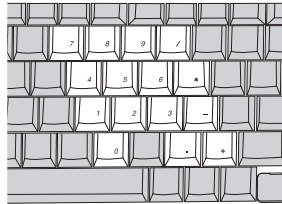
■ Using the keyboard

Your computer has a numeric keypad and function keys incorporated in the standard keyboard.

■ Numeric keypad

The keyboard has keys that, when enabled, work as a 10-key numeric keypad.

To enable or disable the numeric keypad, press **Fn+F8**.



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

Chapter 2. Using Your Computer

■ Function key combinations

Through the use of the function keys, you can change operational features instantly. To use this function, press and hold the **Fn** key **1**; then press one of the function keys **2**.



Chapter 2. Using Your Computer

The following describes the features of each function key.

Fn + Esc: Turn on/off the integrated camera.

Fn + F1: Put your computer in sleep mode.

Fn + F2: Turn on/off the LCD screen.

Fn + F3: Shift to other connected display devices.

Fn + F4: Open the interface for display resolution settings.

Fn + F5: Open the interface for integrated wireless devices settings (enable/disable).

Fn + F6: Enable/disable the touch pad.

Fn + F7: Eject the disc from the optical drive.

Fn + F8: Enable/disable the numeric keypad.

Fn + F9: Activate the pause function

Fn + F10: Activate the break function

Fn + F11: Enable/disable Scroll Lock.

Fn + F12: Turn on/off the insert input.

Fn + PrtSc: System request.

Fn + up/down arrow: Increase/decrease display brightness.

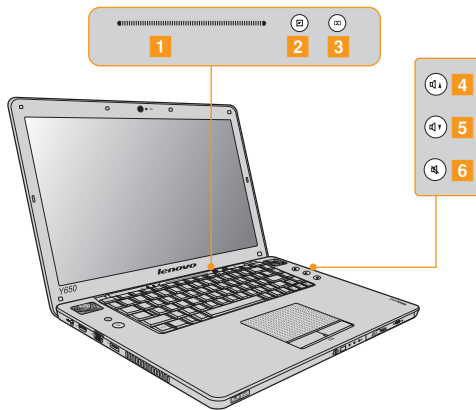
Fn + right/left arrow: Increase/decrease sound volume.

Chapter 2. Using Your Computer

■ Special keys and buttons

Your computer has several special keys and buttons.

■ Touch inductive panel and volume buttons



Chapter 2. Using Your Computer

Touch inductive panel (1 ~ 3)

- 1 Slidebar:
Quick launch customized applications by the slide and release at the Slidebar when "Lenovo Desktop Navigator" is installed.
- 2 OneKey Theater:
Open OneKey Theater to select Normal mode or Movie mode as preferred.
- 3 Open Dolby function setup screen.

Volume buttons (4 ~ 6)

- 4 Volume up
- 5 Volume down
- 6 Mute

Chapter 2. Using Your Computer

■ OneKey Rescue System button

Press the **OneKey Rescue System** button to enter the main interface of OneKey Rescue System while the power is off.

⦿ Attention:

When you press the **OneKey Rescue System** button to turn on the computer, ensure that your computer is not connected to other peripherals (such as USB storage device, etc.), otherwise the system may not operate properly.

For details, see *OneKey Rescue System User Guide*.

❖ Note:

When your computer is running Windows Vista®, and if you have the OneKey Recovery application installed, you can start the application by pressing the **OneKey Rescue System** button.

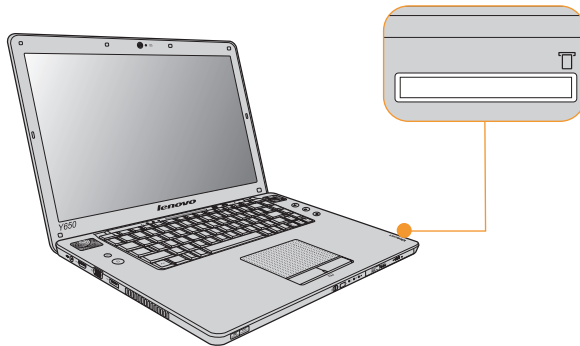
Chapter 2. Using Your Computer

■ ■ Using the optical drive

Your computer comes with an optical drive, such as a CD/DVD drive.

■ ■ Using memory cards

Your computer comes with one Multi-media Card reader socket used to insert a memory card, such as an SD Card, a MultiMediaCard, a Memory Stick, an xD-Picture Card, an SD pro card or a Memory Stick Pro.



Chapter 2. Using Your Computer

❖ **Note:**

Only use the memory card types listed above; for more information on usage, read the instructions shipped with the memory card.
This card reader does not support SDIO devices (e.g. SDIO *Bluetooth*, etc.).

Chapter 2. Using Your Computer

■ ■ Using lenovo remote control (specific models only)

You can use the remote control with Windows Media Center for convenient media enjoyment.

For details of the remote control operation, see the instructions shipped with it.

❖ Note:

The Windows Media Center function mentioned in the instructions of the remote control is supported only by Windows Vista Home Premium and Windows Vista Ultimate operating systems from Microsoft at present, but not supported by other operating systems. If necessary, please install the operating system that supports the function.

■ ■ Using the integrated camera

With the built-in camera, you can take photos or movies and use with various applications, such as EasyCapture, Windows Live Messenger or Yahoo! Messenger, and so on.

❖ Note:

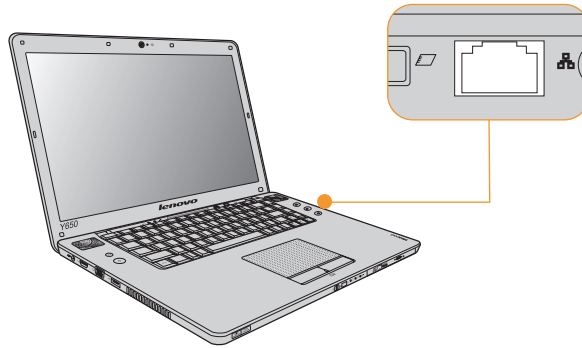
- If you use Windows Vista, you need to install a separate third party dedicated application, because Windows Vista does not include a program for taking pictures or movies with the integrated camera.
- The camera status indicator turns on when the camera is in use. When you do not need to use the camera, you may turn off it with Fn+Esc to save power.

Chapter 2. Using Your Computer

■ Using the Internet

■ Using RJ-45 port

The LAN port supports a standard RJ-45 connector, and allows you to connect the computer to a high-speed DSL/cable modem connection and local area network (LAN).



⦿ Attention:

As the voltage of a telephone connection is higher than that of a network, do not attempt to connect a telephone cable to the RJ-45 port or else a short circuit of the computer might occur.

Chapter 2. Using Your Computer

■ Using wireless LAN

An isotropic antenna system is built into the display for optimal reception, enabling wireless communication wherever you are.

To enable wireless communications, do the following;

- 1 Slide the integrated wireless device switch to the right.
- 2 Press **Fn + F5** to make configure.

Chapter 2. Using Your Computer

■ Securing your computer

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

■ Attaching a security lock (optional)

You can attach a security lock to your computer to help prevent it from being removed without your permission.

Attach a security lock to the keyhole of the computer; then secure the chain on the lock to a stationary object. Refer to the instructions shipped with the security lock.

Refer to the "Right-side view" on page 4 for the location of the security keyhole.

❖ Note:

You are responsible for evaluating, selecting, and implementing the locking devices and security features. Lenovo makes no comments, judgements, or warranties about the function, quality, or performance of locking devices and security features.