

Lenovo ideapad 720S-13IKB ideapad 720S Touch-13IKB ideapad 720S-13ARR User Guide



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

Lenovo[™]

Notes

- Before using the product, be sure to read *Lenovo Safety and General Information Guide* first.
- The latest electronic compliance and environmental information are available from the Lenovo compliance information Web sites.
 - To view compliance information go to:
<http://www.lenovo.com/compliance>.
 - To download environmental information go to:
<http://www.lenovo.com/ecodeclaration>.
- Some instructions in this guide may assume that you are using Windows® 10. If you are using another 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 or your computer may include features that are not described in this user guide.
- The illustrations used in this manual are for Lenovo ideapad 720S Touch-13IKB unless otherwise stated.
- The illustrations in this manual may differ from the actual product. The screenshots of operating system are for reference only. Please refer to the actual product.

Regulatory Notice

- For details, refer to **Guides & Manuals** at <http://support.lenovo.com>.

First Edition (July 2017)

© Copyright Lenovo 2017.

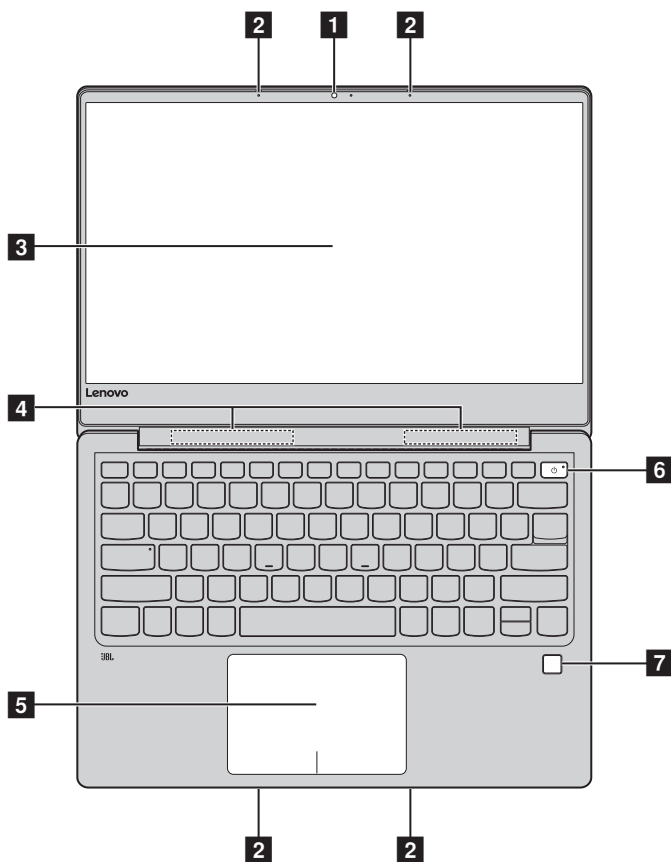
LIMITED AND RESTRICTED RIGHTS NOTICE: If data or software is delivered pursuant to a General Services Administration "GSA" contract, use, reproduction, or disclosure is subject to restrictions set forth in Contract No. GS-35F-05925.

Contents

Chapter 1. Getting to know your computer	1
Top view	1
Left-side view	5
Right-side view	8
Bottom view	9
Chapter 2. Starting to use Windows 10	10
Configuring the operating system for the first time	10
Operating system interfaces	10
Putting the computer to sleep or shutting it down	14
Touch screen operation (ideapad 720S Touch-13IKB)	16
Connecting to a wireless network	20
Get help from Windows	21
Chapter 3. Recovery system	22
Push-button reset	22
Chapter 4. Troubleshooting	24
Frequently asked questions	24
Troubleshooting	26
Trademarks	29

Chapter 1. Getting to know your computer

■ ■ Top view




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

⦿ **Attention:**

- Do *not* open the display panel beyond 175 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.

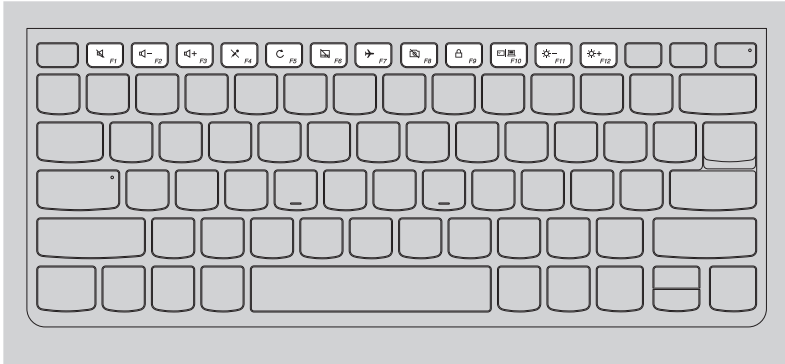
Chapter 1. Getting to know your computer

- | | |
|---|---|
| 1 Integrated camera | Use the camera for video communication. |
| 2 Built-in microphone | Capture sound which can be used for video conferencing, voice narration, or audio recording. |
| 3 Computer display (ideapad 720S-13IKB/ideapad 720S-13ARR) | The LCD display with LED backlight provides brilliant visual output. |
| Multi-touch screen (ideapad 720S Touch-13IKB) | The LCD display with LED backlight provides brilliant visual output. Multi-touch function is available on this display. |
| 4 Wireless LAN antennas | Connect to a wireless LAN adapter to send and receive wireless radio signals. |
| 5 Touch pad | <p>The touch pad functions as a conventional mouse.</p> <p>Touch pad: To move the pointer on the screen, slide your fingertip over the pad in the direction in which you want the pointer to move.</p> <p>Touch pad buttons: The functions of the left/right side correspond to those of the left/right mouse button on a conventional mouse.</p> |
- Note:** You can enable/disable the touch pad by pressing **F6** ().
- | | |
|--|--|
| 6 Power Key | <p>Press this key to turn on/off the computer.</p> <p>By default, when the computer is on, press and hold this key for more than 1 second, the computer will enter sleep mode, press and hold it for more than 4 seconds, the computer will be turned off.</p> |
| 7 Fingerprint reader (on select models) | Registers fingerprints that can be used as passwords to secure your computer. |

■ Using the keyboard

Hotkeys

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



Mutes/unmutes the sound.



Enables/disables airplane mode.



Decreases the volume level.



Enables/disables camera.



Increases the volume level.



Locks/unlocks the LCD screen.



Enables/disables microphone.



Enables the external projector or dangles the external display.



Refreshes page.



Decreases display brightness.



Enables/disables the touch pad.



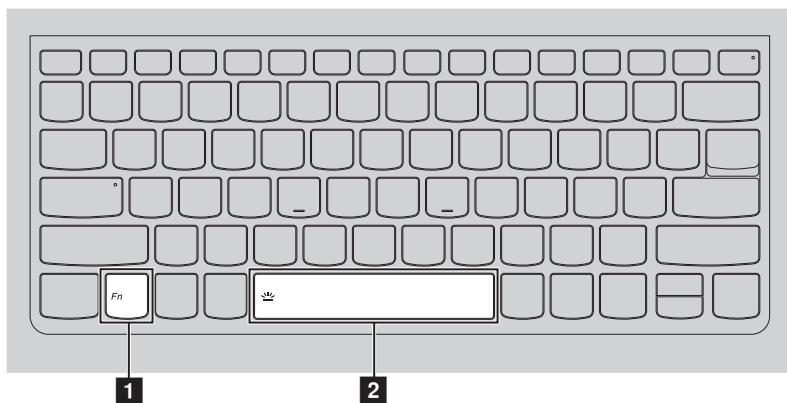
Increases display brightness.

Note: If you changed the **Hotkey Mode** from **Enabled** to **Disabled** in the BIOS setup utility, you will need to press the Fn key in combination with the appropriate hotkey.

Chapter 1. Getting to know 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 **Fn** **1**; then press one of the function keys **2**.

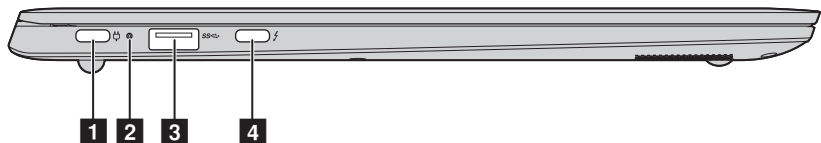


The following describes the features of each function key.

Fn + Space (on select models):

Adjusts the keyboard backlight (dim → bright → off).

■ ■ Left-side view



1 AC power adapter jack/ Type-C port

This jack can be used as both AC power adapter jack and Type-C port, supporting USB 3.1.

2 Battery/Charging status indicator

AC power adapter status	Indicator status	Meaning
Disconnected	Off	The computer is in sleep mode or turned off; The battery has more than 20% charge.
	Solid amber	The battery has between 5% and 20% charge.
	Fast blinking amber	The battery has between 1% and 5% charge.
Connected	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.
	Solid white	The battery has more than 80% charge, charging will continue until the battery is fully charged.

3 USB 3.0 port Connects to USB devices.

Note: For details, see “Connecting USB devices” on page 7.

Chapter 1. Getting to know your computer

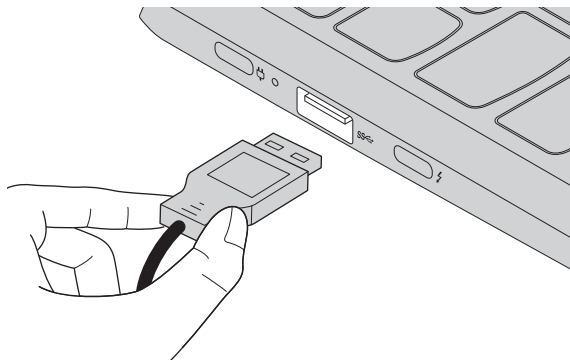
4 Type-C port

Type-C port supports:

- USB 3.1
- Native display port 1.2 video output
- VGA/HDMI output using Type-C VGA/HDMI adapter (sold separately)
- Supply power for this computer. (on select models)

■ 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 has been installed, you can disconnect and reconnect the device without performing any additional steps.

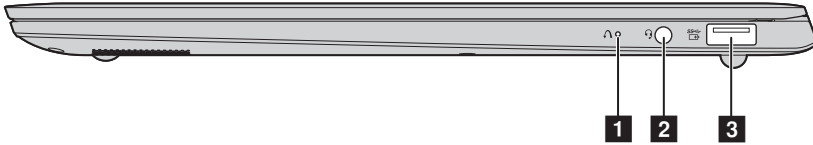
Note: Typically, Windows detects a new device after it has been connected, and then installs the driver automatically. However, some devices may require you to install the driver before connecting. Check the documentation provided by the device's manufacturer before connecting the device.

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

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

2 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.

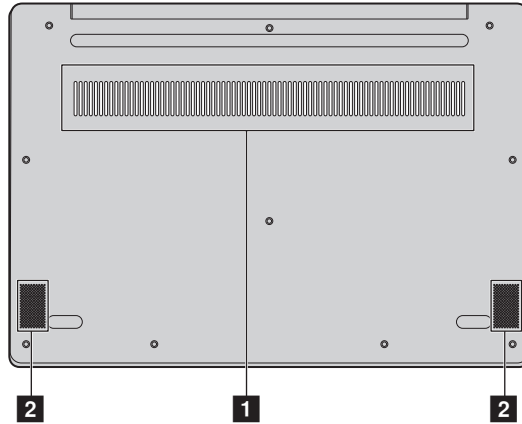
3 USB 3.0 port

Connects to USB devices.

Notes:

- If the battery charge is more than 20%, the USB port with a  mark supports charging of an external USB device, even when the computer is not connected to power.
- For details, see “Connecting USB devices” on page 7.

■ ■ Bottom view



- 1 Ventilation slots** Dissipate internal heat.

Note: Make sure that none of the ventilation slots are blocked, or else overheating of the computer may occur.

- 2 Speakers** Provide audio output.

Chapter 2. Starting to use Windows 10

■ ■ 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:

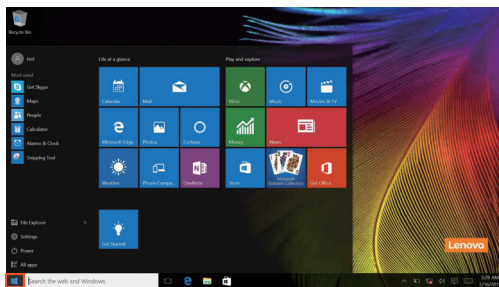
- Accepting the end user license agreement
- Configuring the Internet connection
- Registering the operating system
- Creating a user account

■ ■ Operating system interfaces

The Start menu

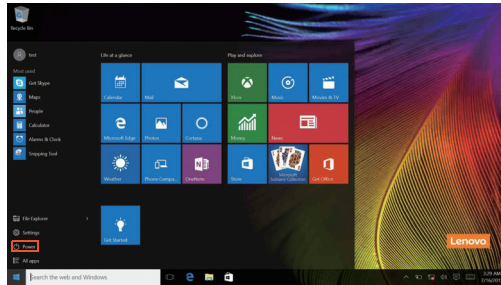
Windows 10 comes with a powerful and useful start menu. To open the start menu, do one of the following:

- Select the Start button in the lower-left corner, the Start menu is displayed.
- Press the Windows key on the keyboard.



Chapter 2. Starting to use Windows 10

The power button is on the Start menu, click it you can choose to shut down or restart the computer, or put the computer into sleep mode.

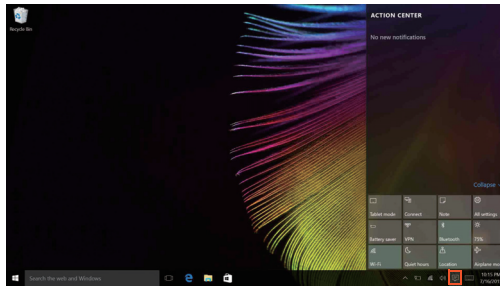


Through the Start menu, you can locate all the installed apps or view the frequently used apps.

Chapter 2. Starting to use Windows 10

The ACTION CENTER

Select the ACTION CENTER icon  on the taskbar and the ACTION CENTER is displayed.



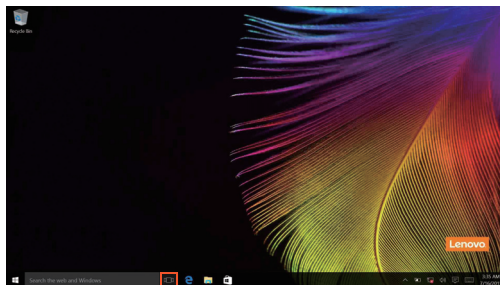
From the ACTION CENTER, you can examine important notifications from Windows and your apps. Moreover, you can change common settings quickly.

Task View in taskbar

In Windows 10, you can add a new desktop and switch between different desktops.

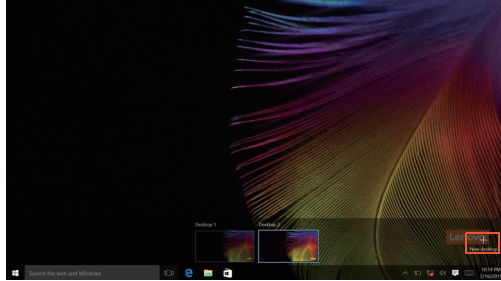
To add a new desktop, do the following:


- Click the Task View icon  in the taskbar area.



Chapter 2. Starting to use Windows 10

- Click **New desktop**.



To switch between desktops, click the Task View icon , then select your desired desktop.

■ ■ 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 lid.
- Press and hold the Power key for about 1 to 4 seconds.
- Move the cursor to the lower-left corner, and then select the Start button.

Select **Power**  → **Sleep**.

Note: Put your computer to sleep before you move it. Moving your computer while the hard disk drive is spinning can damage the hard disk, causing loss of data.

To wake up the computer, perform the following:

- Press any key on the keyboard.

■ Shutting down the computer

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

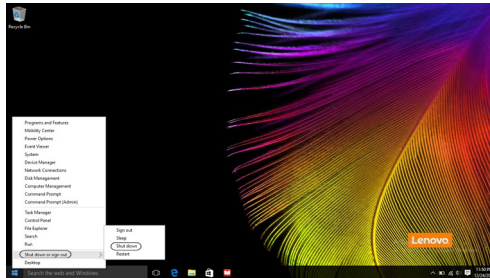
To shut down your computer, do one of the following:

- Move the cursor to the lower-left corner, and then select the Start button.

Select **Power**  → **Shut down**.



- Right-click the Start button in the lower-left corner and select **Shut down or sign out** → **Shut down**.





■ ■ **Touch screen operation**
(ideapad 720S Touch-13IKB)



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

■ **Multi-touch gestures**


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

Frequently used gestures	Tasks performed
<p>Tap Tap once on an item.</p> 	<p>Performs an action, such as starting an app, opening a link, or performing a command. Similar to left-clicking with a mouse.</p>
<p>Press and hold Press your finger down and leave it there for a moment.</p> 	<p>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.</p>


(continued)

Frequently used gestures	Tasks performed
<p>Zoom Move two fingers together or apart while touching the screen.</p>  An illustration of a tablet screen displaying a document with text. A hand is shown with two fingers touching the screen, with small arrows indicating the fingers moving apart to zoom in.	<p>Zooms in and out on visual apps, such as pictures and maps. Can also jump to the beginning or end of a list.</p>
<p>Rotate Place two or more fingers on an item and then turn your hand.</p>  An illustration of a tablet screen displaying a colorful, swirling abstract image. A hand is shown with two fingers touching the screen, with curved arrows indicating a circular motion to rotate the content.	<p>Turns an object. (Note: Not all items can be rotated, depending upon the app.)</p>

Chapter 2. Starting to use Windows 10

Frequently used gestures	Tasks performed
<p>Slide Drag your finger across the screen.</p> 	<p>Pans or scrolls through lists and pages. Can also move an object or be used to draw or write, depending upon the app. Similar to pressing and holding to pan and to scrolling with a mouse.</p>




(continued)

Frequently used gestures	Tasks performed
<p>Swipe Start from any edge of the screen, then swipe inwards toward the center.</p> 	<p>Swiping in from the left edge can:</p> <ul style="list-style-type: none">• Bring in and open an app currently running in the background. <p>Swipe from the right edge can open the ACTION CENTER.</p>

■ ■ Connecting to a wireless network

Enabling wireless connection

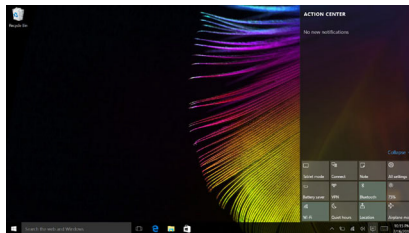
To enable wireless functions, do one of the following:

- Click the ACTION CENTER icon  in the notification area, and then deselect **Airplane mode**.
- Press  to disable airplane mode.
- Click Settings  → **Network & Internet** → **Airplane mode** 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.



■ ■ Get help from Windows

If you have a problem with the operating system, see the Windows Get Started app. To open it, do the following:

- Move the cursor to the lower-left corner, and then select the Start button. Select **Get Started** from **All apps**.

Chapter 3. Recovery system

■ ■ Push-button reset

Push-button reset is a built-in recovery tool that enables users to restore their operating system to its original state. This preserves 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. This preserves 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 transfer of ownership. This reinstalls the factory default configuration and returns all user data and applications to the state of their original Out-of-Box Experience (OOBE).

■ Using Push-button reset

Push-button reset can be launched using one of the following methods:

- Novo button:
 - Shut down the computer and wait at least five seconds. Press the Novo button and then select **System Recovery**.
- Settings:
 - **Settings** → **Update & security** → **Recovery** → **Advanced startup** → select **Restart now**.

For more instructions, see the Windows Help and Support file on your computer.

When I purchased my computer, it included a copy of Windows. How can I determine whether the copy of Windows is preinstalled by Lenovo?

On the outside of the sales package of your computer, you should find a label containing configuration information for your computer. Check the printed string next to **OS**. If it contains **Windows** or **WIN**, the copy of Windows was preinstalled by Lenovo.

I uninstalled a preinstalled software, but there is no significant increase in the free drive space.

The copy of Windows running on your computer may be Compact technology enabled. For computers with Compact technology enabled Windows, the majority of files needed for preinstalled software are installed on the Recovery Partition and won't be deleted through normal uninstallation.

How can I determine whether the Windows running on my computer is Compact technology enabled?

Compact technology is normally enabled on copies of Windows 10 Update running on SSD (or eMMC) -only computer models. To check your computer,

- ① Right-click the Start button in the lower-left corner and select **Disk Management**.
- ② The Disk Management program starts.

If **Wim Boot** is labeled on the Windows partition (as illustrated), Compact technology is enabled on your copy of Windows.



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

If your computer is preinstalled with a Windows operating system, first check the installation program on the D partition of your hard disk (for select models, on the C partition). If you cannot find the drivers for all the hardware devices that you need there, download the drivers from the Lenovo consumer support website.

Note: The Lenovo support Web site contains the latest drivers.

Chapter 4. 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 hardware specification 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 software (desktop software)?

Your computer does not come with installation discs for Lenovo preinstalled software. If you need to reinstall any preinstalled software, you can find the installation program on the D partition of your hard disk (for select models, on the C partition). 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 (for select models, on the C partition). You can also download the latest device drivers from the Lenovo consumer support website.

■ BIOS setup utility

What is the BIOS setup utility?

The BIOS setup utility is ROM-based software. It displays 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 Support**. 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 **UEFI** mode. If you need to install a legacy operating system, such as Windows, Linux or Dos, etc (that is, any operating system before Windows 8) on your computer, you must change the boot mode to **Legacy Support**. The legacy operating system, such as Windows, Linux or Dos, etc 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

Display problems

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

- If the screen is blank, make sure that:
 - The AC power 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 key again for confirmation.
- If these items are set correctly, 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 its original factory contents using Push-button reset. If you still see only the cursor on the screen, have the computer serviced.

The screen goes blank while the computer is on.

- Your power management is enabled. Perform the following to resume from sleep mode:
 - Press any key on the keyboard.

Sleep problems

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

- The battery power is getting low. Connect the AC power 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. See “Chapter 2. Use and care Information” in the *Lenovo Safety and General Information Guide*.


Note: 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 your computer is in sleep mode, connect the AC power adapter to the computer, then press the Windows button or the Power key.
- 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 key for eight seconds or more. If the computer still does not reset, remove the AC power adapter.

Display panel problems

The screen is blank.

- Do the following:
 - If you are using the AC power adapter or the battery, and the battery status indicator is on, press **F12** () to make the screen brighter.
 - If the power indicator is blinking, press the Power key 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.

- Is 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 speakers 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.

Chapter 4. Troubleshooting

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.

Other problems

Your computer does not respond.

- To turn off your computer, press and hold the Power key for eight seconds or more. If the computer still does not respond, remove the AC power 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 high power consumption external devices, such as an external USB optical drive, use an external device power adapter. Otherwise, the device may not be recognized, or the system may shut down as a result.

Trademarks

The following terms are trademarks or registered trademarks of Lenovo in the United States, other countries, or both.

Lenovo

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

Other company, products, or service names may be trademarks or service marks of others.

Lenovo

ideapad 720S-13IKB

ideapad 720S Touch-13IKB

ideapad 720S-13ARR

Regulatory Notice

Lenovo[™]

■ ■ Lenovo regulatory notice for wireless adapters

This manual contains regulatory information for the following Lenovo products:
Lenovo ideapad 720S-13IKB/ideapad 720S Touch-13IKB/ideapad 720S-13ARR.

■ Read first — regulatory information

Please read this document before you use your Lenovo computer. Your Lenovo computer complies with the radio frequency and safety standards of any country or region in which it has been approved for wireless use. You must install and use your computer in strict accordance with the instructions as described hereafter.

Veuillez lire ce document avant d'utiliser votre ordinateur Lenovo. Votre ordinateur Lenovo est conforme aux normes de sécurité et de radiofréquence du pays ou de la région où son utilisation sans fil est approuvée. Vous devez installer et utiliser votre ordinateur en respectant scrupuleusement les instructions décrites ci-après.

■ USA — Federal Communications Commission (FCC)

I. Factory preinstalled Wireless LAN + Bluetooth Combo module

- FCC ID: PD93165NGU (Model: 3165NGW)
- FCC ID: PD98265NG (Model: 8265NGW)
- FCC ID: PPD-QCNFA435 (Model: QCNFA435)
- FCC ID: PPD-QCNFA344AH (Model: QCNFA344A)
- FCC ID: TX2-RTL8821CE (Model: RTL8821CE)

The following wireless LAN modules marketed in the USA and Canada do not support or function in the extended channels (Ch. 12, Ch. 13):

– Models: QCNFA435, QCNFA344A, RTL8821CE

i) The FCC RF Exposure compliance:

The radiated output power of the Wireless LAN + Bluetooth Combo Mini PCI Express Card authorized to use for the your Lenovo computer is far below the FCC radio frequency exposure limits. Nevertheless, it shall be used in such a manner that the potential for human contact during normal operation is minimized as follows:

Caution: The total radiated energy from the antennas connected to the installed wireless LAN module, conforms to the FCC limit of the SAR (Specific Absorption Rate) requirement, regarding 47 CFR Part 2 section 1093, when the computer was tested in either conventional notebook or tablet computer orientations.

ii) FCC ID of wireless module:

On the bottom side of your Lenovo computer, you will find an indicator label of the format "Contains Transmitter Module: FCC ID XXXX", where XXXX represents the FCC ID that corresponds to your preinstalled Wireless LAN + Bluetooth Combo module.

iii) Radio Frequency interference requirement:

Each device has been tested and found to comply with the limits for a Class B digital device pursuant to FCC Part 15 Subpart B. Refer to “Electronic emission notices” on page 5.

When you use a Wireless LAN + Bluetooth Combo module in the 802.11 a/n transmission mode:

- High power radars are allocated as primary users of the 5250 to 5350 MHz and 5650 to 5850 MHz bands. These radar stations can cause interference with and/or damage this device.

II. Simultaneous use of RF transmitters

Make sure of the following conditions on use of wireless features:

1. When you use any other RF option device, all wireless features in your Lenovo computer are required to be turned off.
2. Users must follow the RF Safety instructions on wireless option devices that are included in the RF option device’s user’s manual.

■ Canada — Industry Canada (IC)

IC Certification number

I) Factory preinstalled Wireless LAN + Bluetooth Combo modules:

- IC: 1000M-3165NG (Model: 3165NGW)
- IC: 1000M-8265NG (Model: 8265NGW)
- IC: 4104A-QCNFA435 (Model: QCNFA435)
- IC: 4104A-QCNFA344A (Model: QCNFA344A)
- IC: 6317A-RTL8821CE (Model: RTL8821CE)

The following wireless LAN modules marketed in the USA and Canada do not support or function in the extended channels (Ch. 12, Ch. 13):

– Models: QCNFA435, QCNFA344A, RTL8821CE

There is no certification number of Industry Canada for Mini PCI Express Card shown on the enclosure of your Lenovo computer. Instead you will find an indicator label pointing to the location of the IC Certification number on the bottom side of your Lenovo computer. This label will be of the format “Contains Transmitter Module: Canada IC: XXXX”, where XXXX represents the IC ID that corresponds to your preinstalled WLAN module.

II) Low power license-exempt radiocommunication devices (RSS-247):

Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

When you use a Wireless LAN and Bluetooth Combo module adapter in the 802.11 a/n transmission mode:

- The devices for the band 5150-5350 MHz are only for indoor usage to reduce potential for harmful interference to co-channel Mobile Satellite systems.
- High power radars are allocated as primary users (meaning they have priority) of 5250-5350 MHz and 5650-5850 MHz bands and these radars could cause interference and/or damage to LE-LAN (Licence-Exempt Local Area Network) devices.
- The maximum antenna gain permitted for devices in the 5250-5350 MHz, 5470-5725 MHz, and 5725-5825 MHz bands complies with the e.i.r.p. limit.

III) Exposure of humans to RF fields (RSS-102):

Lenovo computers employ low gain integral antennas that do not emit RF field in excess of Health Canada limits for the general population; consult Safety Code 6, obtainable from Health Canada’s Web site at www.hc-sc.gc.ca/rpb

The radiated energy from the antennas connected to the wireless adapters conforms to the IC limit of the RF exposure requirement regarding IC RSS-102, Issue 5 clause 4.

Numéro d'homologation IC

I) Modules de réseaux local sans fil pré-installé à l'usine:

- IC: 1000M-3165NG (Model: 3165NGW)
- IC: 1000M-8265NG (Model: 8265NGW)
- IC: 4104A-QCNFA435 (Model: QCNFA435)
- IC: 4104A-QCNFA344A (Model: QCNFA344A)
- IC: 6317A-RTL8821CE (Model: RTL8821CE)

Le boîtier de votre ordinateur Lenovo ne comporte pas de numéro d'homologation IC (Industry Canada) pour la carte mini-PCI Express ; mais sous votre Lenovo, vous trouverez une étiquette indicatrice pointant vers l'emplacement du numéro d'homologation IC. L'étiquette se présente sous la forme "Contains Transmitter Module: Canada IC: XXXX" où XXXX représente l'ID IC qui correspond au module WLAN préinstallé.

II) Remarque relative aux appareils de communication radio de faible puissance sans licence (CNR-210, CNR-247):

Le fonctionnement de ce type d'appareil est soumis aux deux conditions suivantes:

1. Cet appareil ne doit pas perturber les communications radio, et
2. cet appareil doit supporter toute perturbation, y compris les perturbations qui pourraient provoquer son dysfonctionnement.

Lorsque vous utilisez un module adaptateur LAN sans fil et Bluetooth Combo dans le 802,11 un mode de transmission / n :

- Les dispositifs pour la bande 5150-5350 MHz ne sont que pour une utilisation en intérieur pour réduire potentiel d'interférences nuisibles à la co-canal systèmes satellite mobile .
- Les radars à haute puissance sont désignés comme utilisateurs principaux (ce qui signifie qu'ils ont la priorité) des bandes 5250- 5350 MHz et 5650-5850 MHz et ces radars pourraient provoquer interférences et / ou des dommages à LE-LAN (exemple de licence Local Area Network) appareils.
- Le gain d'antenne maximal autorisé pour les appareils dans les bandes de fréquence 5250-5350 MHz, 5470-5725 MHz et 5725-5825 MHz est conforme à la limite p.i.r.e (puissance isotrope rayonnée équivalente).

III) Exposition des êtres humains aux champs radioélectriques (RF) (CNR-102):

L'ordinateur Lenovo utilise des antennes intégrales à faible gain qui n'émettent pas un champ électromagnétique supérieur aux normes imposées par le Ministère de la santé canadien pour la population. Consultez le Safety Code 6 sur le site Web du Ministère de la santé canadien à l'adresse "www.hc-sc.gc.ca/rpb".

L'énergie rayonnée par les antennes connectées aux adaptateurs sans fil est conforme à la IC limite de l'exigence de l'exposition aux RF IC concernant CNR- 102, Issue 5, Section 4.

■ Electronic emission notices

Federal Communications Commission (FCC) Statement

Models: 3165NGW, 8265NGW, QCNFA435, QCNFA344A and RTL8821CE.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an authorized dealer or service representative for help.

Lenovo is not responsible for any radio or television interference caused by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:

Lenovo (United States) Incorporated
1009 Think Place - Building One
Morrisville, NC 27560
Telephone: 1-919-294-5900



