### Lenovo IdeaPad Tablet K1

User Guide v1.0

lenovo

#### Notes

- Before using this information and the product it supports, be sure to read Important safety information on page iii and Notices in Appendix E first.
- Some instructions in this guide may assume that you are using Windows® 7. 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, but it won't substantially affect your use of this computer.
- 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 in this manual may differ from the actual product. Please refer to the actual product.

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## Respective Users

Dear user,

Before using this product, make sure to read this user guide carefully. Thank you for purchasing your new Lenovo notebook computer!

information provided in this manual is accurate and reliable. However, due needs. To help you master the usage of your new computer quickly, we great depth. For this reason, we apologize for any omissions you might to the short length of the user guide it is impossible to cover all topics in notices. We have done our best to avoid any errors in making sure that the the system configuration, basic operating instructions, and important have prepared this user guide. In this manual you will find information on We are pleased that you have chosen Lenovo for your mobile computing

use. Lenovo apologizes for any inconvenience that this issue might cause and the operations of your computer should not substantially affect your However, any inconsistencies between what is described in the user guide within the user guide might not perfectly match those of your system. products. For that reason, the hardware and software components shown Lenovo is always trying to improve the performance and reliability of its

Thank you for your cooperation.

### Explanation of hard disk capacity

Dear user,

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

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

disk capacity. displayed by the operating system will be different from the nominal hard manufacturer and operating system are different, the hard disk capacity hard disk manufacturers. Since the standards adopted by the hard disk 1KB = 1,024 bytes. The standard adopted by your computer is that of the operating systems use a radix of 1024, i.e., 1GB = 1,024MB, 1MB = 1,024KB1,000KB, 1KB = 1,000 bytes. However, when identifying hard disk capacity, Hard disk manufacturers use a radix of 1000, i.e., 1G = 1,000MB, 1MB =

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

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

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

## = A portion of the hard disk space is used for specific purposes

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

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

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

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# Important safety information

# Important safety information

"Appendix C. Lenovo limited warranty" on page 76. agreement or the Lenovo Limited Warranty. For more information, see The information in this document does not alter the terms of your purchase computer. Follow and retain all information included with your computer. This information can help you safely use your notebook personal

### Read this first

The safety risks are categorized as follows: physical injury or property damage, especially if misused. and other features can create potential safety risks that can result in Personal computers are electronic devices. Power cords, power adapters,

### \* Danger:

Physical injury or even death may be caused.

### • Attention:

Property damage or even minor injury may be caused

environment, follow the instructions hereafter. To protect yourself from hazards and create a safer computer work

## Important safety information

### Unpack



parts with the following labels attached for any crack or damage. Inspect the covers of the computer and the AC adapter, especially



### \* Danger:

inside any component that has this label attached. Hazardous voltage, current, and energy levels are present

### Working place



Keep the computer and other parts away from liquids. Do NOT use the computer in humid places such as a bathroom.

### \* Danger:

An electric shock may be caused by spilled liquid.



Do NOT use the computer during a lightning storm.

### • Attention:





Keep a good ventilation of the computer and other parts

### \* Danger:

Placing the working computer or other parts on a bed, sofa or catch a fire. overheat of your computer or other parts to overheat or even other flexible surface may block the ventilation slots causing



a hospital or at an airport. Turn off wireless devices where they may cause interference, such as in

## Important safety information

### On using



with the computer and never use them with another product. Use ONLY the power cord, power adapter and battery pack shipped

correct voltage and current for the product you are installing Be sure the power outlet is suitable for the plug and provides the

### \* Danger:

cause an electric shock or fire. An unsuitable power supply may damage your computer or



pack that appears to be damaged or corroded. Do NOT use a power outlet, power cord, power adapter or battery



appliances that draw large amounts of electricity. Do NOT share an electrical outlet with other home or commercial

popping sound, or a strong odor comes from the computer. input rating. Unplug the power cord if there is a cracking, hissing, or a If power strips are used, the load should NOT exceed the power strip's

### \* Danger:

Overloading the power supply may cause unstable voltages or even cause a fire which might damage the computer, data, or attached devices,



objects. Do NOT wrap the power cord around the power adapter or other

Do NOT squeeze or pinch the cord, or place heavy objects on it.

### • Attention:

Stressing the cord may cause the cord to fray, crack or crimp which may present a safety hazard.



length of time. contact with a hot section of the working computer for any extended Avoid keeping your hands, your lap, or any other part of your body in

### • Attention:

Extended contact with your body, even through clothing, could cause discomfort or even a skin burn.



crystal display (LCD) of your computer. Do NOT drop, bump, scratch, hit or place heavy objects on the liquid

### • Attention:

water for more than 15 minutes. hazardous; if contact occurs, rinse with large amount of running Direct contact with liquid crystal material from a broken LCD is

## Important safety information

### Service and upgrades



so by the customer support center or your documentation. Do NOT attempt to service a product yourself unless instructed to do

### • Attention:

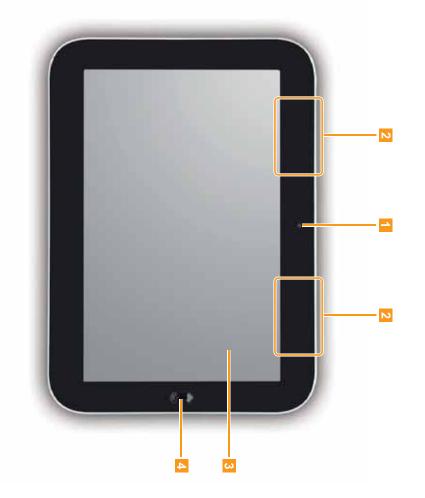
Do NOT take risks or attempt to diagnose the situation go to <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a>. guidance. For a list of service and support phone numbers, yourself. Contact the customer support center for further

appropriate for customers to install options or replace units (CRUs). Closely follow all instructions when installing or replacing parts. Lenovo provides documentation with instructions when it is

installation and configuration procedures. before you open the device covers, unless instructed otherwise in the Disconnect the attached power cords, battery pack, and all the cables

Keep the covers closed whenever the computer is plugged in.

### Top view



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

2 antennas Wireless module camera Integrated The built-in antennas ensure optimal reception of wireless communication radio. Use the camera for video communication.

The LCD display provides brilliant visual output.

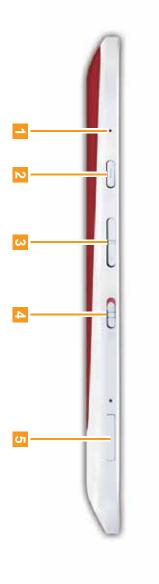
display

OFN button

ယ

Computer

## Left-side view



- Built-in microphone
- narration, or simple audio recordings.

The built-in microphone (with echo cancellation and noise reduction) can be used for video conferencing, voice

- 2 Power button
- Press this button to turn on the slate.
- 3 Volume button

4

**Rotate Screen** 

- Increase/Decrease volume level.
- Slide the switch to enable/disable the Rotate Screen function.
- 5 Media card slot

switch

- **slot** Insert media cards (not supplied) here
- **Note:** For details, see "Using media cards (not supplied)" on page 23.

### Front view



- Audio jack
- Connects to an external earphone&microphone.
- AC power
  - Connect the AC adapter here.
- adapter jack

**Note:** For details, see "Using AC adapter and battery" on page 9.

- ယ **HDMI** port
- Connects to devices with HDMI input such as a  $\ensuremath{\mathsf{TV}}$  or a display.

### Bottom view



Speakers

- The JBL certificated speakers provide rich and powerful sound.
- **N Integrated camera** Use the camera for video communication.

### First use

## Read the manuals

Read the supplied manuals before using your computer.

## Connect to the power

automatically charged while the computer is running on AC power. pack and connect the computer to an electrical outlet. The battery is To charge the battery and begin using your computer, insert the battery The supplied battery pack is not fully charged at purchase

## Install the battery pack

Refer to the supplied *Setup Poster* to install the battery pack.

# Connect the computer to an electrical outlet

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

## Turn on the computer

Press the power button to turn on the computer.

# Configure the operating system

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

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

## Putting your computer into sleep state or shutting it down

state or shut it down. When you finish working with your computer, you can put it into sleep

# Putting your computer into sleep state

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

and bypass the startup process When the computer is in sleep state, you can quickly wake it to resume use,

To put the computer into sleep state, do one of the following.

- Click and select **Sleep** from the **Start** menu.
- Press Fn + F1.

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

To wake the computer, do one of the following.

- Press the power button.
- Press any key on the keyboard
- power button. from sleep to hibernation automatically. To wake it up, just press the If you do not use the computer for a long time, the computer will switch

# Shutting down your computer

To shut down your computer, click 🚱 and select Shut Down from the Start If you are not going to use your computer for a day or two, shut it down.

# Using AC adapter and battery

## Checking battery status

Windows Power Options. You can determine the percentage of battery power remaining by using

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

battery or replace it with a fully charged one When you find that the battery power is low, you need to charge the

and the battery is installed. The battery is charged when the AC adapter is connected to the computer

Charging time will depend on the usage environment.

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

- When you purchase a new battery.
- If the battery status indicator turns amber
- If the battery has not been used for a long time.

#### Notes:

- You are advised to insert the battery pack when using your computer to prevent small particles from entering the inside of your computer.
- the battery immediately after it drops from fully charged. To increase the life of the battery pack, the computer does not start recharging
- Charge the battery at a temperature between 50 °F and 80 °F (10 °C-30 °C).
- Full charge or discharge is not required.
- battery when the computer is on. To protect the computer system, we advise you not to insert or remove the

### Removing the battery pack

if you need to send your computer to Lenovo for service, etc. remove the If you are not going to use the computer for an extended period of time, or

battery pack from the computer.

down. Before removing the battery pack, make sure the computer has been shut

## Handling the battery

may be danger of an explosion. The battery pack contains a small amount environment, pay attention to the following points. of harmful substances. To avoid possible injury and detriment to the If the rechargeable battery pack is replaced with an incorrect type, there

#### Notes:

- Replace only with a battery of the type recommended by Lenovo.
- Keep the battery pack away from fire.
- Do not expose the battery pack to water or rain.
- Do not attempt to disassemble the battery pack.
- Do not short-circuit the battery pack.
- Keep the battery pack away from children.
- disposing of the battery, comply with local ordinances or regulations and your company's safety standards. Do not put the battery pack in trash that is disposed of in landfills. When

## Using the touchpad



\_ **Touchpad** 

- To move the cursor on the screen, slide your fingertip over the pad in the direction to which you want the cursor to move.
- N Left click button
- button on a conventional mouse. The function corresponds to that of the left mouse
- ယ Right click button
- The function corresponds to that of the right mouse button on a conventional mouse.

**Note:** You can enable / disable the touchpad using **Fn+F6**. See "System status indicators" on page 20.

### Gestures

actions such as zoom in/out, or scroll up/down, etc. The touch pad recognizes certain gestures, and allows for easy execution of

### Pinch zoom

- Place two fingers down on the TouchPad surface
- Slide the fingers further apart to zoom in or slide the fingers closer together to zoom out. For the best zooming experience, use the tips of your fingers.

### **Two-Finger Scrolling**

- slightly separated. Place two fingers down on the TouchPad surface. The fingers should be
- direction Using a straight continuous motion, slide both fingers in the desired
- Lift both fingers up off the TouchPad surface to stop scrolling

### Rotating

- slightly separated. Place two fingers down on the TouchPad surface. The fingers should be
- Rotate one finger in the desired direction.

### Three-Finger Flick

- Place three fingers, slightly separated, down on the TouchPad surface.
- Flick your fingers in a linear, continuous motion in the desired direction, moving from one side of the TouchPad to the opposite side.
- page forwards or backwards in a photo viewer or an Internet browser Horizontal finger motion, sliding your fingers to the right or left will
- Slide your fingers upwards to launch slideshow mode, Slide your fingers downwards to exit slideshow mode.

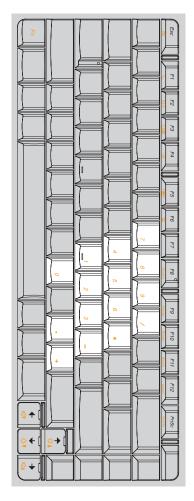
## Using the keyboard

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

### Numeric keypad

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

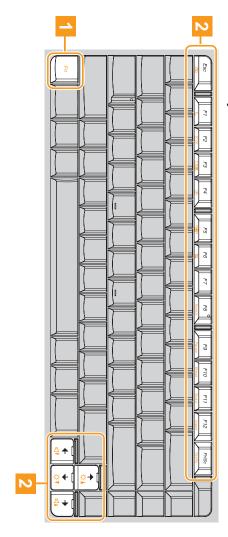
To enable or disable the numeric keypad, press Fn+F8.



**Note:** The indicator on the upper right corner of the **F8 (NumLk)** key will light on if the numeric keypad is enabled.

## Function key combinations

instantly. To use this function, press and hold  ${\sf Fn}$   ${\color{red} {\bf 11}}$  , then press one of the function keys 2. Through the use of the function keys, you can change operational features



The following describes the features of each function key.

Fn + $\leftarrow/\rightarrow$ : Decrease/Increase volume level.	<b>Fn +</b> ↑/↓: Increase/Decrease dia	<b>Fn + PrtSc:</b> Activate the system request.	Fn + F12: Turn on/off the insert input.	Fn + F11: Enable/Disable the Scroll Lock.	<b>Fn + F10:</b> Activate the break function.	<b>Fn + F9:</b> Activate the pause function.	<b>Fn + F8:</b> Enable/Disable the numeric keypad.	<b>Fn + F7:</b> Start/Pause playback	<b>Fn + F6:</b> Enable/Disable the touchpad	<b>Fn + F5:</b> Open the interface for inte settings (enable/disable).	<b>Fn + F4:</b> Open the interface for	<b>Fn + F3:</b> Shift to other connect	Fn + F2: Turn on/off the backl	Fn + F1: Enter sleep mode.	Fn + Esc: Turn on/off the integrated camera.
ase volume level.	Increase/Decrease display brightness.	tem request.	insert input.	the Scroll Lock.	ak function.	use function.	the numeric keypad.	Start/Pause playback of Windows Media Player.	the touchpad.	Open the interface for integrated wireless devices settings (enable/disable).	Open the interface for display resolution settings.	Shift to other connected display devices.	Turn on/off the backlight for the LCD screen.	le.	integrated camera.

# Special keys and buttons

Your computer has several special keys and buttons.



# OneKey Rescue System button

- When the computer is powered-off, press this button to enter the OneKey Rescue System if Lenovo OneKey Rescue System has been preinstalled.
- In Windows operating system, press this button to start Lenovo OneKey Recovery.

Note: For details, see "OneKey Rescue System" on page 31.

## Cap Sensor buttons

(4) Volume Up button:

Quick increase volume level.

(47) Volume Down button:

Quick decrease volume level.

(M) Mute button:

Mute/Unmute the sound.

# System status indicators

These indicators inform you of the computer status.



- Hard disk drive indicator 🕒
- Bluetooth indicator
- Wireless communication indicator (₁)
- Num lock indicator
- 5 Caps lock indicator
- 6 Power status indicator  $\bigcirc$
- Battery status indicator :
- 8 Touchpad indicator 🖼
- Graphics status indicator (specific models only)

# Securing your computer

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

## Attaching a security lock (not supplied)

that you have purchased. security lock, please refer to the instructions shipped with the security lock being removed without your permission. For details on installing the You can attach a security lock to your computer to help prevent it from

Refer to the "Right-side view" on page 5 for the location of the Kensington

#### Notes:

- type of security keyhole. Before purchasing any security product, verify that it is compatible with this
- devices and security features. Lenovo offers no comment judgement or warranty You are responsible for evaluating, selecting, and implementing the locking regarding the function, quality or performance of locking devices and security

## ■ Using VeriFace<sup>™</sup>

extracts key features of your face, and creates a digital map that becomes the system's "password". VeriFace is a face recognition software which takes a digital snapshot,

Note: The face registration and verification works best in an environment with steady and even light.

For more instructions on VeriFace, see the help file on your software

### Using passwords

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

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

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

Note: To enter BIOS setup utility, press F2 when the Lenovo logo appears on the screen while the computer is starting up.

## Connecting external devices

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

## Using media cards (not supplied)

Your computer supports the following types of media cards:

- Secure Digital (SD) card
- Secure Digital PRO (SD PRO) card
- MultiMediaCard (MMC)
- Memory Stick (MS)
- Memory Stick PRO (MS PRO)
- xD-Picture (xD) 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.).

## Chapter 2. Learning the basics

### Inserting a media card

Gently pull the dummy card out of the media card slot.

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

S Push the card directly into the media card slot until it reaches the end.

### Removing a media card

- Gently pull the media card out of the media card slot.
- 2 Insert the dummy card to the media card slot.

**Note:** Before removing the media card, unable it by Windows **Safely Remove Hardware** utility to avoid data corruption.

### Connecting a universal serial bus (USB) device

Your computer comes with 1 USB port compatible with USB devices

Note: When using a high power consumption USB device such as USB ODD, use the external device's power adapter. Otherwise, the device may not be recognized, or system shut down may result.

## Connecting a Bluetooth device (specific models only)

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

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

## Enabling Bluetooth communications

- Slide the integrated wireless device switch to ( ).
- **2** Press Fn + F5 to make configuration.

#### Notes:

- When you do not need to use the *Bluetooth* function, turn it off to save battery power.
- For details on pairing with wireless devices, refer to their instructions
- Pairing methods may vary by operating systems.

## only) Using Switchable Graphics (specific models

Some IdeaPad models support Switchable Graphics. After you toggle the GPU switch, the system will automatically choose and switch over to the integrated or dedicated GPU according to the current loading.

\*GPU is short for graphics processing unit.

**Note:** The dedicated AMD GPU provides you with superior graphics performance while the energy-efficient integrated graphics provides longer operation with graphics performance. However, when the computer is using battery power you are advised to switch to the power-saving GPU if you are not running the battery. You can switch to the high-performance GPU to gain the best graphics-intensive applications.

## To change the GPU, do the following:

Start your computer to the Windows operating system. If the computer is in sleep or hibernation mode, press the power button to wake it up.

Note: Do not try to change the GPU when the computer is in sleep or hibernation

- N box, you can: Activate the Switchable Graphics dialog box. To activate the dialog
- right-click on the desktop and select Configure Switchable Graphics from the pop-up menu.
- slide and release the GPU switch on the front side of your computer.

## Chapter 3. Using the Internet

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

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

Wired connection: uses physical wiring to connect.

Wireless network technology: connect without wiring.

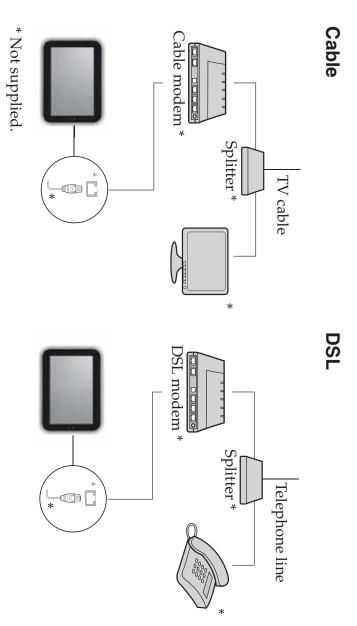
## Wired connection

Internet. Generally, the following two accessing methods are widely used. Wired connection is a reliable and safe way to connect the computer to the

DSL is a family of related technologies that bring high-speed network access to homes and small
---

### Chapter 3. Using the Internet

### Hardware connection:



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

## Software configuration

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

## Wireless connection

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

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

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.
Mobile Broadband	The Mobile Broadband network provides Internet access
	to computers, cell phones and other devices over a large
	geographic area. Mobile networks are used for data
	retwork operator A Mobile Broadband SIM card is
	necessary for the connection.

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

### Chapter 3. Using the Internet

## Using Wi-Fi/WiMax (specific models only)

## **Enabling wireless connection**

To enable wireless communications, do the following:

- Slide the integrated wireless device switch to ( ).
- 2 Press Fn + F5 to make configuration.

### **Hardware connection**



### Software configuration

Support Center for details on how to configure your computer. Consult your Internet Service Provider (ISP) and search Windows Help and

<sup>\*</sup> Not supplied

# Chapter 4. OneKey Rescue System

## OneKey Rescue System

#### Introduction

starting the Windows operating system. restore when required. You can run Lenovo OneKey Recovery under the Windows operating system, and the OneKey Rescue System without be used to back up the data on your system partition (C drive) for easy The Lenovo OneKey Rescue System is an easy-to-use application that can

#### • Attention:

is hidden for security reasons and is the reason the available disk space is pre-installed software). size of the mirror image file (based on the size of operating system and less than it claims. The exact available hard disk space depends on the file image file and OneKey Rescue System program files. This default partition disk already includes a hidden partition by default to store the system In order to utilize the features of the OneKey Rescue System, your hard

## Chapter 4. OneKey Rescue System

### system) Using Lenovo OneKey Recovery (Within Windows operating

Icon on the desktop to launch Lenovo OneKey Recovery. In Windows operating system, double click the OneKey Recovery System

drive, other storage devices, or by creating recovery discs. Within the program, you can back up the system partition on the hard disk

#### Notes:

- the AC adapter and battery pack to your computer. The backup process and creation of recovery discs may take some time, connect
- After the recovery discs are burned, please number them so that you can use them in the correct order.
- discs; however an appropriate external optical drive is needed to physically Computers without an integrated optical drive support the creation of recovery create the recovery discs.

For more instructions, see the help file of Lenovo OneKey Recovery.

### operating system) Using Lenovo OneKey Rescue System (Without Windows

below to access OneKey Rescue System. In the event that the operating system cannot be loaded, follow the steps

- Shut down your computer.
- Press the \(\begin{aligned}
  \hat{A}\) key to launch OneKey Rescue System.

original factory status, or to a previously generated backup. Within the program, you can choose to restore your system partition to the

**Note:** The recovery process is irreversible. Make sure to back up any critical data before using the recovery feature.

## Frequently Asked Questions

computer, see Lenovo IdeaPad Tablet K1 Setup Poster. answers. For details about each publication included in the package with your This section lists frequently asked questions and tell where you can find detailed

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

See "Important safety information" on page iii of this guide

## How can I prevent problems with my computer?

More tips can be found in Chapter 1 and 2. See "Appendix B. Use and care information" on page 62 of this guide

# What are the main hardware features of my new computer?

More information can be found in Chapter 1 and 2

# Where can I find the detailed specifications for my computer?

See <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a>

## disk drive, memory, or the keyboard. I need to upgrade a device or I need to replace one of the following: the hard

See "Appendix D. Customer replaceable units (CRUs)" on page 90 of this

### Where are the recovery discs?

OneKey Rescue System" on page 31. the alternative recovery methods offered by Lenovo, see "Chapter 4. Your computer did not come with a recovery disc. For an explanation of

## How can I contact the customer support center?

See "Appendix A. Getting help and service" on page 57 of this guide.

## Where can I find warranty information?

period and type of warranty service, see "Appendix C. Lenovo limited For the warranty applicable to your computer, including the warranty warranty" on page 76.

## How can I install the device drivers?

you need in your hard disk. is preinstalled with an operating system, Lenovo provides all the drivers and performance of each component in your computer. If your computer A compatible device driver is a requirement to ensure correct operation

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

the backup process, please try the following steps: If you can start the backup feature without a problem, but it fails during

- Close other applications, then restart the backup process
- Check if the destination media is damaged, try to select another path and then try again.

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

status when you first booted up your computer after receiving it from before you run this recovery feature. the store. If there is critical data on your current partition, back it up your operating system. This will restore your computer back to the initial You can use this feature when your system fails or you need to re-install

### Troubleshooting

comprehensive information in Chapter 2. describes problems that might negate the need to refer to the more If you do not find your problem here, see Chapter 2. The following section only

#### **Display problems**

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

- If the screen is blank, make sure that:
- The battery is installed correctly.
- 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.)
- The memory is installed correctly.
- 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 system partition (C drive) to the original factory contents using OneKey Recovery. 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 or hibernation mode:
- Touch the touchpad.
- Press any key on the keyboard.
- Press the power button.
- Press **Fn+F2** to confirm whether the LCD screen has been turned off.

# Problems on changing graphics processing unit (GPU)

When I right-click on the desktop, the **Configure Switchable Graphics**option is not displayed on the pop up menu. Or when I slide and release the GPU switch on the front side of the computer, the Switchable Graphics dialog box is not displayed.

The screen remains blank when I try to switch the GPU.

- Check the graphics device setting in BIOS setup utility. In BIOS setup utility, move the cursor to **Configuration**, make sure **Switchable Graphics** option is set active under **Graphics Device**.
- Check the operating system you are using. Switchable Graphics technology is currently available only on Windows 7.
- Make sure your computer is not running an exclusive mode Direct3D or OpenGL application. If your computer is running either of the above applications, quit the application before you switch the GPU.

The system cannot be switched from highperformance GPU to power-saving GPU.

If you are outputting the screen to an external display through an HDMI cable, you might not be able to switch to power-saving GPU. Change the display device back to the LCD display of your notebook before you switch to power-saving GPU.

#### A Password problem

I forgot my password.

- If you forget your user password, you must take your computer to a Lenovo authorized servicer or a marketing representative to have the password changed.
- 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 supervisor 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.

#### **Keyboard problems**

A number appears when you enter a letter.

The numeric lock function is on. To disable it, press **Fn+F8**.

## Sleep or hibernation problems

The computer enters sleep mode unexpectedly.

•

If the processor overheats, the computer automatically enters sleep mode to allow the computer to cool and to protect the processor and other internal components. Check the settings for sleep mode.

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

Make sure that:

The battery is charged.

The operating temperature is within the acceptable range. See "Appendix B. Use and care information" on page 62.

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

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, or replace the battery with a fully charged one.

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

- If the computer does not return from sleep mode, it may have entered hibernation mode automatically because the battery is depleted. Check the power indicator.
- If your computer is in sleep mode connect the AC adapter to the computer, then press any key or the power button.
- If your computer is in hibernation mode or poweroff state. Connect the AC adapter to the computer, then press the power button to resume operation.

Note: If the system still does not return from sleep mode, your system has stopped adapter and the battery. button for 4 seconds or more. If the computer is still not reset, remove the AC unsaved data may be lost. To reset the computer, press and hold the power responding, and you cannot turn off the computer, reset the computer. However,

### Computer screen 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
   Fn + ↑ to make the screen brighter.
- If the power indicator is blinking, press the power button to resume from the sleep mode.
- If the problem persists, follow the solution in the following problem "The screen is unreadable or distorted."
- Press Fn+F2 to confirm whether the LCD screen has been turned off.

The screen is unreadable or distorted.

- or 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.

•

Did you install the operating system or application program 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 headphone jack is not used.
- Speakers is selected as a playback device

#### **Battery problems**

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

indicator shows empty.

fully charged battery is The operating time for a

battery. operate with a fully charged The computer does not

charge. The battery does not

> • Discharge and recharge the battery.

For details, see "Handling the battery" in Chapter 2

- protector, then turn on the computer again. The surge protector in the battery might be active. Turn off the computer for one minute to reset the
- For details, see "Handling the battery" in Chapter 2.

### 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 **Boot** priority order correctly.

#### A startup problem

start. operating system does not The Microsoft® Windows

System" on page 31. identify your problem. For details on the OneKey Rescue System, see "Chapter 4. OneKey Rescue Use the OneKey Rescue System to help solve or

## OneKey Rescue System problems

Backup cannot be made.

- You are not currently using a Windows operating system.
- There is not enough space to store the backed up data. You will need to free more hard disk space on your system partition (C drive).

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.

#### Other problems

The 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 and the battery.
- Your computer might lock when it enters sleep mode during a communication operation.

The computer does not start from the desired device.

•

- See the **Boot** menu of **BIOS Setup Utility**. Make sure that **Boot priority order** in **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 BIOS Setup Utility, make sure that the device is included in the Boot priority order list.
- Press F12 when the Lenovo logo appears on the screen while the computer is starting up 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 Plug and Play (PnP) device 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.

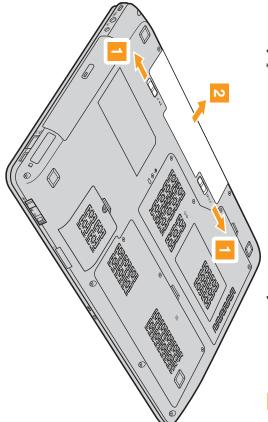
## Replacing the battery

**Note:** Use only the battery provided by Lenovo. Any other battery could ignite or explode.

### To replace the battery

- adapter and all cables from the computer. Turn off the computer, or enter hibernation mode. Disconnect the AC
- Close the computer display, and turn the computer over.

ω battery pack in the direction shown by the arrow 2. Unlock the battery latches in the unlocked position  $\mathbf{1}$ , remove the



- 4 Install a fully charged battery.
- to the computer again. Turn the computer over again. Connect the AC adapter and the cables

## Replacing memory

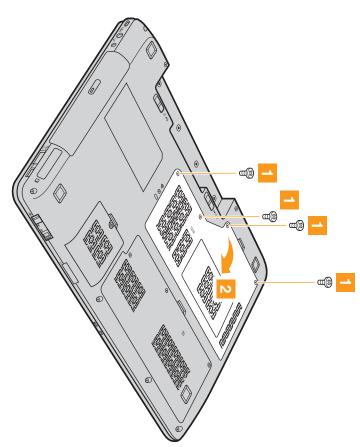
double data rate (DDR3) small outline dual inline memory module (SO-DIMMs are available in various capacities. DIMM)-available as an option-in the memory slot of your computer. SO-You can increase the amount of memory in your computer by installing a

Note: Use only the memory types supported by your computer. If you incorrectly install optional memory, or install an unsupported memory type, a warning beep will sound when you try to start the computer.

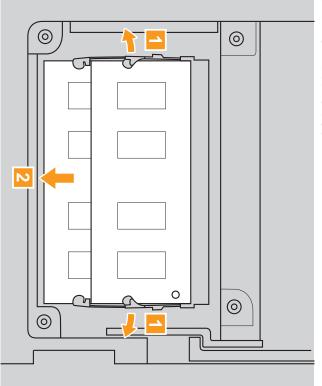
To install an SO-DIMM, do the following:

- electricity in your body, which could damage the SO-DIMM. Do not Touch a metal table or a grounded metal object to reduce any static touch the contact edge of the SO-DIMM.
- N the computer Turn off the computer. Disconnect the AC adapter and all cables from
- ω Close the computer display, and turn the computer over
- 4) Remove the battery again.

- OI Remove the CPU/Memory compartment cover.
- a. Remove the screws that secure the compartment cover  $\boxed{1}$ .
- b. Remove the compartment cover 2.

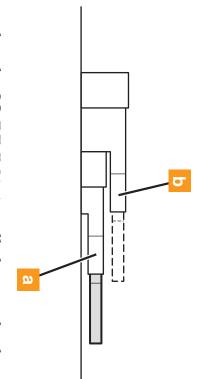


<u>ග</u> of them to make room for the new one by pressing out on the latches If two SO-DIMMs are already installed in the memory slot, remove one SO-DIMM for future use. on both edges of the socket at the same time. Be sure to save the old



- Insert the notched end of the DIMM into the socket
- that it is firmly fixed in the slot and does not move easily. Press the DIMM firmly, and pivot it until it snaps into place. Make sure
- 8 Reinstall the compartment cover.
- Reinstall the battery.
- to the computer. Turn the computer over, and reconnect the AC adapter and the cables

Note: If only one DIMM is used on the computer you are servicing, the card must be installed in SLOT-0 ( a : lower slot), but not in SLOT-1 ( b : upper slot).



To make sure that the SO-DIMM is installed correctly, do as follows:

- Turn the computer on.
- your computer. Hold F2 during startup. The BIOS Setup Utility screen opens. The Total Memory item shows the total amount of memory installed in

## Replacing the hard disk drive

disk drive from your reseller or Lenovo marketing representative. hard disk drive with one of greater capacity. You can purchase a new hard You can increase the storage capacity of your computer by replacing the

#### Notes:

- Replace the hard disk drive only if you upgrade it or have it repaired. The connectors and bay of the hard disk drive were not designed for frequent changes, or drive swapping.
- The preinstalled softwares are not included on an optional hard disk drive

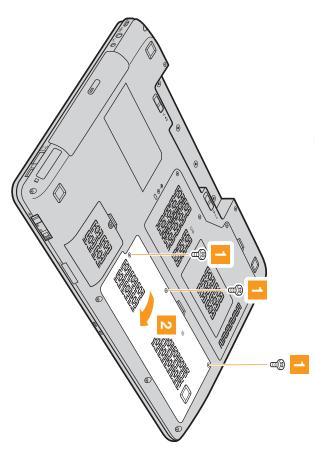
### Handling a hard disk drive

- material, such as soft cloth, that absorbs the physical shock Do not drop the drive or subject it to physical shocks. Put the drive on a
- Do not apply pressure to the cover of the drive.
- Do not touch the connector.

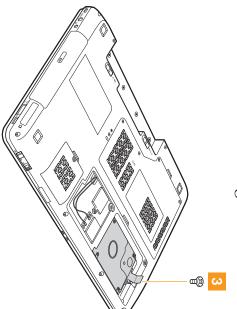
operating, in sleep mode, or in hibernation mode. drive, make a backup copy of all the information on the hard disk, and then turn the computer off. Never remove the drive while the system is permanent loss of data on the hard disk. Before removing the hard disk The drive is very sensitive. Incorrect handling can cause damage and

To replace the hard disk drive, do the following:

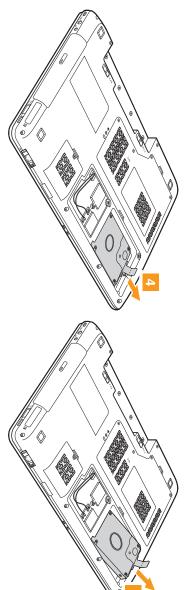
- Turn off the computer; then disconnect the AC adapter and all cables from the computer.
- Close the computer display, and then turn the computer over.
- 3 Remove the battery pack.
- Remove the Hard disk drive compartment cover.
- a. Remove the screws that secure the compartment cover 11.
- b. Remove the compartment cover 2.



**5** Remove the frame fixing screw.



6 Pull the tab in the direction shown by arrow.



- Take out the hard disk drive secured in a metal frame.
- $\infty$ drive. Remove the screws and detach the metal frame from the hard disk

- 6 Attach the metal frame to a new hard disk drive; then tighten the
- 6 Put the hard disk drive gently into the hard disk drive bay with the tab firmly into space. facing upwards and the connectors facing each other; then push it
- **1** Reinstall the frame fixing screw.
- Reinstall the compartment cover.
- **(3)** Reinstall the screws.
- (4) Reinstall the battery pack.
- to the computer again. Turn the computer over again. Connect the AC adapter and the cables

instructions. for your computer, and informs you of where to find replacement The following table provides a list of CRUs (Customer Replaceable Units)

	Setup Poster	User Guide
AC adapter	0	
Power cord for AC adapter	0	
Battery	0	0
Bottom access doors		0
Memory		0
Hard disk drive		0

# Appendix A. Getting help and service

and whom to call for service should it be necessary. computers, what to do if you experience a problem with your computer, information about where to go for additional information about Lenovo sources available from Lenovo to assist you. This section contains information about Lenovo computers, you will find a wide variety of If you need help, service, technical assistance, or just want more

charges may apply) or from a disc. For more specific information and links updates. They are available by means of a Web download (connection product. related to, Service Packs for your Lenovo-preinstalled Microsoft Windows go to the Microsoft Web site at <a href="http://www.microsoft.com">http://www.microsoft.com</a>. Lenovo offers Microsoft Service Packs are the latest software source for Windows product Up and Running technical assistance with installation of, or questions

## Getting help on the Web

page is <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a>. about Lenovo computers and support. The address for the Lenovo home The Lenovo Web site on the World Wide Web has up-to-date information

options that can make working with your Lenovo computer even easier. to solve problems, find new ways to use your computer, and learn about You can find support information for your Lenovo IdeaPad<sup>TM</sup> computer at /consumersupport.lenovo.com. Research this Web site to learn how

# Calling the customer support center

during the warranty period: through the customer support center. The following services are available the warranty period, you can get help and information by telephone If you have tried to correct the problem yourself and still need help, during

- Problem determination Trained personnel are available to assist you action is necessary to fix the problem. with determining if you have a hardware problem and deciding what
- available to provide the applicable level of service Lenovo hardware under warranty, trained service personnel are Lenovo hardware repair - If the problem is determined to be caused by

### Appendix A. Getting help and service

available that apply to your hardware. authorized by Lenovo, will make selected Engineering Changes (ECs) that are required after a product has been sold. Lenovo or your reseller, if Engineering change management - Occasionally, there might be changes

The following items are not covered:

- Replacement or use of parts not manufactured for or by Lenovo or non warranted parts
- Identification of software problem sources
- Configuration of BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of application programs

when the warranty expires, go to http:/ To determine if your Lenovo hardware product is under warranty and /consumersupport.lenovo.com

warranty terms. Be sure to retain your proof of purchase to obtain warranty Refer to your Lenovo hardware warranty for a full explanation of Lenovo

### Appendix A. Getting help and service

available: calling for technical assistance, please have the following information and system updates, and recorded information before you call. When If possible, be near your computer when you make your call in case the technical assistance representative needs to help you resolve a computer problem. Please ensure that you have downloaded the most current drivers

- Machine Type and Model
- Serial number of your computer and your proof of purchase
- Description of the problem
- Hardware and software configuration information for your system

**Note:** For the latest list of customer support center telephone numbers and hours of operation, visit the Support Web site at <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a>. reseller or Lenovo marketing representative If the number for your country or region is not listed, contact your Lenovo

## Getting help around the world

not be able to service all models of a particular machine type. In some International Warranty Service, which automatically entitles you to obtain warranty service throughout the warranty period. Service will be performed by service providers authorized to perform warranty service. http://consumersupport.lenovo.com. countries, fees and restrictions might apply at the time of service not be available in all countries. Service centers in certain countries might Service methods and procedures vary by country, and some services might If you travel with your computer or relocate it to a country where your Service and to view a list of the countries where service is available, go to To determine whether your computer is eligible for International Warranty Lenovo machine type is sold, your computer might be eligible for

# Lenovo warranty service telephone numbers

Warranty Service Telephone Numbers

country or region. in a country or region, please contact Lenovo, or your reseller in your www.lenovo.com/support/phone. For the latest warranty service number A list of warranty service telephone numbers is available at

## Caring for your computer

environments, you need to use common sense in handling it. By following computer. these important tips, you will get the most use and enjoyment out of your Though your computer is designed to function reliably in normal work

# Be careful about where and how you work

- keyboard can cause damage. Do not eat or smoke over your keyboard. Particles that fall into your
- risk of suffocation from plastic bags. Store packing materials safely out of the reach of children to prevent the
- electrical appliances, or speakers (within 13 cm or 5 in). Keep your computer away from magnets, activated cellular phones
- 41°F or above 35°C/95°F). Avoid subjecting your computer to extreme temperatures (below 5°C/
- from surrounding light and bright surfaces. For Notebooks with glossy display bezels the user should consider the placement of the Notebook as the bezel may cause disturbing reflections
- may become electrostatically charged. Such a charge may be discharged and is exposed for an extended time to air containing negative ions, it can produce negative ions. If a computer is close to such an appliance, Some appliances, such as certain portable desktop fans or air purifiers, through your hands when you touch the keyboard or other parts of the

risk of a computer malfunction. discharge from your body or clothing to the computer, it poses the same though this kind of electrostatic discharge (ESD) is the opposite of a computer, or through connectors on I/O devices connected to it. Even

special attention to the following: computer close to an appliance that can produce negative ions, give however, can increase the risk of ESD. Therefore, when using the electrostatic charge. An electrostatic charge above a certain limit, Your computer is designed and manufactured to minimize any effects of

- that can produce negative ions Avoid directly exposing your computer to the air from an appliance
- appliance. Keep your computer and peripherals as far as possible from such an
- Wherever possible, ground your computer to facilitate safe electrostatic discharge.

#### Notice of static-electricity

computer, take the following precautions to avoid static-electricity When you handle options or CRUs, or perform any work inside the

Limit your movement. Movement can cause static electricity to build up around you.

- modules, and other circuit boards by the edges. Never touch exposed Always handle components carefully. Handle adapters, memory
- Prevent others from touching components.
- seconds. This reduces static electricity in the package and your body. or other unpainted metal surface on the computer for at least two protective package containing the part to a metal expansion-slot cover When you install a static-sensitive option or CRU, touch the static-
- smooth, level surface and place the part on it. protective packaging and install the part without setting it down. Whenever possible, remove the static-sensitive part from the static-When this is not possible, place the static-protective packaging on a
- Do not place the part on the computer cover or other metal surface

#### Be gentle with your computer

- keyboard or under the keyboard. Avoid placing any objects (including paper) between the display and the
- objects on your computer, display, or external devices Do not drop, bump, scratch, twist, hit, vibrate, push, or place heavy
- Avoid turning the display beyond 135°.

## Carry your computer properly

- attached devices, and disconnect cords and cables. Before moving your computer, be sure to remove any media, turn off
- data loss. before moving it. This will prevent damage to the hard disk drive and Be sure your computer is in sleep or hibernation mode, or turned off,
- pick up or hold your computer by the display. When picking up your open computer, hold it by the bottom. Do not
- protection. Do not pack your computer in a tightly packed suitcase or Use a quality carrying case that provides adequate cushion and

#### For outdoor use

- Backup your critical data before you take your computer outdoors.
- Ensure that the battery is full.
- Be sure to turn off the power and close the LCD well.
- avoid being insolated. When you leave the computer in your car, place it on the back seat to
- Carry the AC adapter and power cord with the computer

#### Handle storage media and drives properly

- a disc or the lens on the tray. If your computer comes with an optical drive, do not touch the surface of
- optical drive before closing the tray. Wait until you hear the CD or DVD click into the center pivot of an
- your hardware, and apply pressure only where needed on the device. When installing your hard disk, follow the instructions shipped with

#### Data safety

- fail to work. that were not created by you; otherwise, your computer software might Do not delete unknown files or change the name of files or directories
- Be aware that accessing network resources can leave your computer activities that might damage your computer, software, or data. vulnerable to computer viruses, hackers, spyware, and other malicious
- the form of firewalls, antivirus software, and anti-spyware software and It is your responsibility to ensure that you have adequate protection in keep this software up to date.

## Take care in setting passwords

Remember your passwords. If you forget a supervisor or hard disk might have to replace your system board or hard disk drive password, Lenovo authorized service providers will not reset it, and you

#### Other important tips

- your company's safety standards. disposing of the battery, comply with local ordinances or regulations and Do not put the battery pack in trash that is disposed of in landfills. When
- connector. If so, be sure to connect your communication cable to the correct one, so your connector is not damaged. Your computer might have both an Ethernet connector and a modem

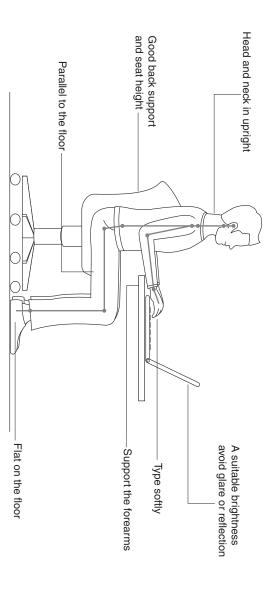
- and upgrades. also enables Lenovo to notify you about possible technical information your computer to you if it is lost or stolen. Registering your computer Register your Lenovo products with Lenovo (refer to the Web page: http://consumersupport.lenovo.com). This can help authorities return
- repair your computer. Only an authorized Lenovo repair technician should disassemble and
- Do not modify or tape the latches to keep the display open or closed
- plugged in. This could break the adapter plug. Take care not to turn your computer over while the AC adapter is
- the device is warm- or hot-swappable. Turn off your computer if you are replacing a device, or else verify that
- your body. The static electricity could damage the device. grounded metal object. This action reduces any static electricity from Before you install any of the following devices, touch a metal table or a
- Memory Stick Pro card. Memory Card, such as SD Card, Memory Stick, MultiMediaCard, and
- Memory module
- data transfer is complete. To do so might cause damage to your data card, do not put your computer in sleep or hibernation mode before the When transferring data to or from a Flash Media Card, such as an SD

## Accessibility and comfort

#### Ergonomic information

improve your performance and achieve greater comfort. such basics as good lighting and proper seating, for example, can help you and bring you the maximum benefits of your computer. Keeping in mind your environment. Following some simple rules will make things easier Working in the virtual office may mean adapting to frequent changes in

Note: This example shows someone in a conventional setting. Even if you work in a Develop good habits, and they will serve you well. casual, less conventional setting, many of the tips in this section still apply.



#### What if you are traveling?

are using your computer while on the move or in a casual setting. maintain desirable levels of comfort and performance Sitting properly and using adequate lighting, for example, will help you Regardless of the setting, try to observe as many of the tips as possible. It may not be possible to observe the best ergonomic practices when you

#### Questions about vision?

specialist for advice. questions on eye fatigue or visual discomfort, consult a vision care concentrated and sustained visual activity can be tiring. If you have displays that are easy to see, yet easy on the eyes. Of course, any standards and to provide you with clear, crisp images and large, bright Your computer's visual display screen is designed to meet the highest

#### Maintenance

information that can help you to keep your computer running smoothly. care, you can avoid common problems. The following sections provide An important part of owning your computer is maintenance. With proper

### General tips for maintenance

- hard disk drive gets too full, Windows $^{\circledR}$  will slow down and might Check the capacity of your hard disk drive from time to time. If the produce errors
- 2 Empty your recycle bin on a regular basis.
- ω regular basis to improve data seek and read time. Use the Microsoft Disk Defragmenter on your hard disk drive on a
- To free up disk space, uninstall unused application programs
- program. Clean out your Inbox, Sent, and Trash folders from your e-mail client
- backup options available for your computer. CD-RW drives or CD-RW/DVD drives are available for most computers present, it is a good idea to perform a daily backup. Lenovo has many At least once a week, make a point to back up your data. If critical data is
- Use or schedule System Restore to take a system snapshot periodically.

Note: Always take a system snapshot before installing new drivers, updating software, or installing new software.

- Update device drivers and BIOS when needed.
- to date with current drivers and revisions. Profile your machine at <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a> to keep up
- updating for compatibility or known issues. might want to read the device driver information release notes prior to Keep up to date on device drivers on other non-Lenovo hardware. You
- you resolved them. changes, driver updates, minor issues you have experienced and how Keep a log book. Entries might include major hardware or software
- page 31. If you ever need to run a recovery operation on your computer by OneKey Rescue System, see "Chapter 4. OneKey Rescue System" on
- codes, it is helpful to have the error screen on or the message written computer is in front of you. Also, if the machine is producing error your machine type, model, and serial number available and the following Web address: <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a>. If required, you can find your country's customer support center at the When calling the customer support center, please make sure you have

## Cleaning the cover of your computer

Occasionally clean your computer as follows:

- contain abrasive powder or strong chemicals such as acid or alkaline). Prepare a mixture of a gentle kitchen-use detergent (one that does not Use 5 parts water to 1 part detergent.
- 2 Absorb the diluted detergent into a sponge.
- 3 Squeeze excess liquid from the sponge.
- 4 care not to let any excess liquid drip. Wipe the cover with the sponge, using a circular motion and taking
- **5** Wipe the surface to remove the detergent.
- **6** Rinse the sponge with clean running water.
- Wipe the cover with the clean sponge
- $\odot$ Wipe the surface again with a dry, soft lint-free cloth.
- Wait for the surface to dry completely and remove any cloth fibers from the computer surface.

Note: Shut down the computer and then disconnect the power cord before cleaning the computer.

## Cleaning your computer keyboard

- Absorb some isopropyl rubbing alcohol on a soft, dust-free cloth.
- Wipe each keytop surface with the cloth. Wipe the keys one by one; if between the keys. key and possibly damage it. Make sure that no liquid drips onto or you wipe several keys at a time, the cloth may hook onto an adjacent
- 3 Allow to dry.
- 4 To remove any crumbs and dust from beneath the keys, you can use a camera blower with a brush or cool air from a hair drier.

Note: Avoid spraying cleaner directly on the display or the keyboard

## Cleaning your computer display

- scratchlike mark on your display, it might be a stain transferred from Gently wipe the display with a dry, soft lint-free cloth. If you see a the keyboard when the cover was pressed from the outside.
- N Wipe or dust the stain gently with a soft, dry cloth.
- ω impurities. mixture of isopropyl alcohol and water that does not contain If the stain remains, moisten a soft, lint-free cloth with water or a 50-50
- 4 Wring out as much of the liquid as you can.
- OI Wipe the display again; do not let any liquid drip into the computer.
- **6** Be sure to dry the display before closing it.

L505-0010-01 04/2008

products you purchased for your own use and not for resale. This Lenovo Limited Warranty applies only to Lenovo branded hardware

www.lenovo.com/warranty. This Lenovo Limited Warranty is available in other languages at

#### What this warranty covers

that apply to your product are designated below under the section titled "Warranty Information." you otherwise in writing. The warranty period and type of warranty service purchase specified on your sales receipt or invoice unless Lenovo informs period. The warranty period for the product starts on the original date of defects in materials and workmanship under normal use during the warranty Lenovo warrants that each hardware product that you purchase is free from

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THE ABOVE LIMITATION ON DURATION MAY NOT APPLY TO YOU. PERIOD. SOME STATES OR JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO

## How to obtain warranty service

service provider. Each of them is referred to as a "Service Provider." A list of www.lenovo.com/support/phone Service Providers and their telephone numbers is available at you may obtain warranty service by contacting Lenovo or an approved If the product does not function as warranted during the warranty period,

information. service area. Contact a local Service Provider for location-specific location to location. Charges may apply outside a Service Provider's normal Warranty service may not be available in all locations and may differ from

#### What your service provider will do to correct problems

determination and resolution procedures specified. When you contact a Service Provider, you must follow the problem

updates over the telephone, e-mail or through remote assistance. Your Service Provider may direct you to download and install designated software Your Service Provider will attempt to diagnose and resolve your problem

Service Provider will ship the CRU to you for you to install. Some problems can be resolved with a replacement part that you can install yourself called a "Customer Replaceable Unit" or "CRU." If so, your

service designated for the product under the section titled "Warranty your application of software updates or the installation of a CRU by you, Information." your Service Provider will arrange for service under the type of warranty If your problem cannot be resolved over the telephone or remotely, through

equivalent. If your Service Provider determines that it is unable to repair your product, your Service Provider will replace it with one that is at least functionally

place of purchase or to Lenovo for a refund of your purchase price. replace your product, your sole remedy is to return the product to your If your Service Provider determines that it is unable to either repair or

## Replacement of a product or part

or part. The replacement product or part shall be warranted for the balance of the period remaining on the original product. working order and at least functionally equivalent to the original product product or part provided by Lenovo may not be new, but it will be in good Lenovo products and parts are eligible for replacement. The replacement replacement product or part becomes your property. Only unaltered the replaced product or part becomes Lenovo's property and the When the warranty service involves the replacement of a product or part,

Before your Service Provider replaces a product or part, you agree to:

- remove all features, parts, options, alterations, and attachments not under warranty service;
- **N** restrictions that prevent its replacement; and ensure that the product or part is free of any legal obligations or
- obtain authorization from the owner to have your Service Provider service a product or part if you do not own it.

## Your additional responsibilities

Where applicable, before service is provided, you agree to:

- follow the service request procedures that your Service Provider specifies;
- **N** backup or secure all programs and data contained in the product;
- ω sufficient, free, and safe access to your facilities to perform service; and provide your Service Provider with all system keys or passwords and
- 4 ensure that all information about identified or identifiable individuals applicable laws. Personal Data that you did not delete, you are in compliance with all ("Personal Data") is deleted from the product or that, with respect to any

#### Use of personal information

use this information to perform service under this warranty and to improve information about your warranty service and your contact information provide it to entities acting on our behalf. We may also disclose it where transfer your information to any country where we do business and may product recalls or safety issues. In accomplishing these purposes, we may satisfaction regarding our warranty service or to notify you about any our business relationship with you. We may contact you to inquire about your including name, phone numbers, address, and e-mail address. Lenovo will If you obtain service under this warranty, Lenovo will store, use and process required by law.

## What this warranty does not cover

This warranty does not cover the following:

- uninterrupted or error-free operation of a product;
- loss of, or damage to, your data;
- any software programs, whether provided with the product or installed subsequently;
- failure or damage resulting from misuse, accident, modification, surges, or improper maintenance by you; unsuitable physical or operating environment, natural disasters, power
- damage caused by a non-authorized service provider;
- failure of, or damage caused by, any third party products, including your request; and those that Lenovo may provide or integrate into the Lenovo product at
- any technical or other support, such as assistance with "how-to" questions and those regarding product set-up and installation.

the product or its parts. This warranty is voided by removal or alteration of identification labels on

#### Limitation of liability

Service Provider is responsible for the transportation. your Service Provider's possession; or 2) in transit in those cases where the Lenovo is responsible for loss or damage to your product only while it is: 1) in

including confidential, proprietary, or personal data contained in a product. prior to its service or return. Neither Lenovo nor your Service Provider is responsible for any of your data You should remove and/or backup all such information from the product

not apply to damages for bodily injury (including death) and damage to real suffered by you, up to the amount you paid for the product. This limit does such instance, regardless of the basis of your claim against Lenovo (including property or tangible personal property for which Lenovo is liable under law and to the extent that liability cannot be waived or limited by applicable laws, breach, negligence, misrepresentation, or other contract or tort claim), except other liability, you may be entitled to recover damages from Lenovo. In each Lenovo shall not be liable for more than the amount of actual direct damages Circumstances may arise where, because of a default on Lenovo's part or

and your Service Provider are collectively responsible Provider. It is the maximum amount for which Lenovo, its suppliers, resellers, This limit also applies to Lenovo's suppliers, resellers, and your Service

SOME STATES OR JURISDICTIONS DO NOT ALLOW THE OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS, PARTY CLAIMS AGAINST YOU FOR DAMAGES; 2) LOSS OR FOLLOWING EVEN IF INFORMED OF THEIR POSSIBILITY: 1) THIRD RESELLERS, OR SERVICE PROVIDERS BE LIABLE FOR ANY OF THE UNDER NO CIRCUMSTANCES SHALL LENOVO, ITS SUPPLIERS **EXCLUSION MAY NOT APPLY TO YOU.** CONSEQUENTIAL DAMAGES, THE ABOVE LIMITATION OR **EXCLUSION OR LIMITATION OF INCIDENTAL OR** BUSINESS REVENUE, GOODWILL OR ANTICIPATED SAVINGS. AS DAMAGE TO YOUR DATA; OR 3) SPECIAL, INCIDENTAL, INDIRECT

#### Dispute resolution

in writing and set forth the findings of fact and the conclusions of law. All shall be final and binding on the parties without appeal. Any award shall be held in accordance with the laws of India then in effect. The arbitration award be held in accordance with the Arbitration Rules of Singapore International settled by arbitration held in Bangalore, India. Arbitration in Singapore shall disputes arising out of or in connection with this warranty shall be finally without regard to conflict of laws. If you acquired the product in India, governed, construed and enforced in accordance with the laws of Singapore, be finally settled by arbitration held in Singapore and this warranty shall be or Sri Lanka, disputes arising out of or in connection with this warranty shall If you acquired the product in Cambodia, Indonesia, Philippines, Vietnam Arbitration Center ("SIAC Rules") then in effect. Arbitration in India shall be

such proceedings language version of this warranty prevails over any other language version in proceedings, shall be conducted in the English language, and the English arbitration proceedings, including all documents presented in such

#### Other rights

RIGHTS, INCLUDING RIGHTS OF CONSUMERS UNDER NATIONAL RIGHTS UNDER APPLICABLE LAW OR WRITTEN AGREEMENT WITH HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE OR LEGISLATION GOVERNING THE SALE OF CONSUMER GOODS THAT LENOVO. NOTHING IN THIS WARRANTY AFFECTS STATUTORY THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY CANNOT BE WAIVED OR LIMITED BY CONTRACT. JURISDICTION TO JURISDICTION. YOU MAY ALSO HAVE OTHER

## European Economic Area (EEA)

01, Bratislava, Slovakia. Service under this warranty for Lenovo hardware which the product has been announced and made available by Lenovo. products purchased in EEA countries may be obtained in any EEA country in Service Organisation, Lenovo (International) B.V., Floor 2, Einsteinova 21, 851 Customers in the EEA may contact Lenovo at the following address: EMEA

#### Lenovo Turkey address

LENOVO TECHNOLOGY B.V.

TURKIYE ISTANBUL SUBESI

Beybi Giz Plaza, Dereboyu cad., Meydan Sok.,

No:28, Kat:10, Daire 35 Maslak

Posta Kodu: 34398

Tel: 3658900-99

Fax: 2902750

### Warranty information

Productor machine type	India, China (Hong Kong S.A.R.), China (Macau S.A.R.) Indonesia, Malaysia, Singapore, Thailand, Philippines, Vietnam, South Africa, France, United states of America, Canada, Mexico, Argentina, Brazil, Austria, Belgium, Denmark, Finland, Germany, Israel, Ireland, Italy, Netherlands, Norway, Spain, Sweden, Switzerland, UK, Lithuania, Latvia, Croatia, Egypt, Greece, Romania, Saudi Arabia, UAE, Lithuania, Cyprus, Slovenia, Estonia, Luxembourg, Iceland, Colombia, Peru, Venezuela, Bolivia, Uruguay, Chile, Paraguay, Ecuador Australia, New Zealand, Japan Russia, Ukraine, the republic of Kazakhstan Sri Lanka Poland, Turkey, Czech Republic,						
Country or region of purchase	Korea, Taiwan	India, China (Hong Kong S.A.R.), China (Macau S.A.R.)	Indonesia, Malaysia, Singapore, Thailand, Philippines, Vietnam, South Africa, France, United states of America, Canada, Mexico, Argentina, Brazil, Austria, Belgium, Denmark, Finland, Germany, Israel, Ireland, Italy, Netherlands, Norway, Spain, Sweden, Switzerland, UK, Lithuania, Latvia, Croatia, Egypt, Greece, Romania, Saudi Arabia, UAE, Lithuania, Cyprus, Slovenia, Estonia, Luxembourg, Iceland,	Australia, New Zealand, Japan	Russia, Ukraine, the republic of Kazakhstan	Sri Lanka	Poland Turkey Czech Republic
Warranty period			parts and labor - 1 year battery pack - 1 year		parts and labor - 2 years battery pack - 1 year	parts and labor - 1 year battery pack - 1 year	. 111
Type of warranty service	3, 4		1, 4	1,3	4	4	

call, parts availability, and other factors available service. Scheduling of service will depend upon the time of your depending on the type of warranty service specified for your product and the If required, your Service Provider will provide repair or exchange service

#### Types of warranty service

# Customer Replaceable Unit ("CRU") Service

not receive the defective CRU within thirty (30) days of your receipt of the you may be charged for the replacement CRU if your Service Provider does label, and a container will be included with the replacement CRU; and 2) When return is required: 1) return instructions, a prepaid return shipping any, will be specified in the materials shipped with a replacement CRU. www.lenovo.com/CRUs. The requirement to return a defective CRU, if and their designation in the publication that ships with your product or at have Lenovo install Self-service CRUs for you. You may find a list of CRUs optional service offering may be available for purchase from Lenovo to the other types of warranty service designated for your product. An request that a Service Provider install Optional-service CRUs under one of tools. Installation of Self-service CRUs is your responsibility. You may upon request. CRUs that are easily installed by you are called Self-service shipped with your product and are available from Lenovo at any time installation by you. CRU information and replacement instructions are replacement. CRUs, while Optional-service CRUs may require some technical skill and Under CRU Service, your Service Provider will ship CRUs to you for

#### 2 On-site Service

product to a designated service center. products, certain repairs may require your Service Provider to send the allow disassembly and reassembly of the Lenovo product. For some the product at your location. You must provide a suitable working area to Under On-Site Service, your Service Provider will either repair or exchange

#### 3 Courier or Depot Service

shipping container will be provided to you for you to return your product Service Provider. You are responsible for disconnecting the product. A exchanged at a designated service center, with shipping arranged by your the service center will arrange the return delivery of the product to you deliver it to the designated service center. Following its repair or exchange to a designated service center. A courier will pick up your product and Under Courier or Depot Service, your product will be repaired or

## 4 Customer Carry-In or Mail-In Service

to collect the product may result in your Service Provider disposing of the repaired or exchanged, it will be made available for your collection. Failure suitably packaged to a designated location. After the product has been Provider specifies, (prepaid by you unless specified otherwise) the product, arranged by you. You are responsible to deliver or mail, as your Service or exchanged at a designated service center, with delivery or shipping Under Customer Carry-In or Mail-In Service, your product will be repaired

you at Lenovo's expense, unless your Service Provider specifies otherwise product as it sees fit. For Mail-in Service, the product will be returned to

#### 5 Product Exchange Service

if Lenovo does not receive the failed product within thirty (30) days of your product during shipment. You may be charged for the replacement product paid by Lenovo. Failure to use the carton in which the replacement product product and return it to Lenovo. Transportation charges, both ways, are pack the failed product in the shipping carton used to ship the replacement for the failed product, which becomes the property of Lenovo. You must its operation. The replacement product becomes your property in exchange to your location. You are responsible for its installation and verification of receipt of the replacement product. was received may result in your responsibility for damage to the failed Under Product Exchange Service, Lenovo will ship a replacement product

# Appendix D. Customer replaceable units (CRUs)

such as a screwdriver. However, both internal and external CRUs are safe upgraded or replaced by the customer. There are two types of CRUs: for removal by the customer. internal and external. External CRUs are easy to install, whereas internal CRUs require some technical skills and in some cases might require tools Customer Replaceable Units (CRUs) are computer parts that can be

can be removed and installed by customers or by a Lenovo service technician during the warranty period. Customers are responsible for replacing all external CRUs. Internal CRUs

Your computer contains the following types of external CRUs:

- External CRUs (pluggable): These CRUs unplug from the computer. Examples of these types of CRUs include the AC adapter and power
- the notebook main battery and a hard-disk drive remove and replace the part. Examples of these types of CRUs include External CRUs with latches: These CRUs include a latch to help you

# Appendix D. Customer replaceable units (CRUs)

Your computer contains the following types of internal CRUs:

- Internal CRUs (located behind an access panel): These CRUs are types of CRUs include memory modules and hard disk drives. panel is removed, only the specific CRU is visible. Examples of these that is typically secured by either one or two screws. Once the access isolated parts within the computer that are concealed by an access panel
- include PCI Express Mini Cards and the integrated keyboard. only by opening the computer's outer case. Examples of these CRUs Internal CRUs (located within the product): These CRUs are accessible

#### Appendix E. Notices

#### Notices

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Morrisville, NC 27560

U.S.A

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environment. Therefore, the result obtained in other operating environments may vary significantly. Some measurements may have been Any performance data contained herein was determined in a controlled

#### **Appendix E. Notices**

extrapolation. Actual results may vary. Users of this document should measurements will be the same on generally available systems. made on development-level systems and there is no guarantee that these verify the applicable data for their specific environment. Furthermore, some measurements may have been estimated through

manuals included with your computer may not match the actual configuration of the computer you purchased. The software interface and hardware configuration described in all the

#### Export classification notice

countries in the EAR E1 country list. Regulations (EAR) and has an Export Classification Control Number (ECCN) of 4A994.b. It can be re-exported except to any of the embargoed This product is subject to the United States Export Administration

# **ENERGY STAR model information**



conform to the ENERGY STAR 5.0 program requirements for computers. the ENERGY STAR mark is affixed, have been designed and tested to compliant designation. Lenovo computers of the following machine types, if protecting the environment through energy efficient products and practices Agency and the U.S. Department of Energy aimed at saving money and ENERGY STAR $^{\circledR}$  is a joint program of the U.S. Environmental Protection Lenovo $^{\circledR}$  is proud to offer our customers products with an ENERGY STAR

20115, 1304

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

For more information about ENERGY STAR, visit

http://www.energystar.gov.

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

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

#### Windows® 7

Power plan: Energy Star

- Turn off the display: After 10 minutes
- Put the computer to sleep: After 25 minutes
- Advanced power settings:
- Turn off hard disks: After 20 minutes
- Hibernate: After 1 hour

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

## Wireless related information

### Wireless interoperability

and is compliant to: Orthogonal Frequency Division Multiplexing (OFDM) radio technology, Spectrum (DSSS), Complementary Code Keying (CCK), and/or any wireless LAN product that is based on Direct Sequence Spread Wireless LAN PCI Express Mini Card is designed to be interoperable with

- The IEEE 802.11a/b/g/n Standard on Wireless LANs, as defined and approved by the Institute of Electrical and Electronics Engineers.
- The Wireless Fidelity (WiFi) certification as defined by the Wi-Fi

product that is compliant to Bluetooth Specification 2.1 + EDR as defined by the Bluetooth SIG. Following profiles are supported by Bluetooth Daughter Card: Bluetooth Daughter Card is designed to be interoperable with any Bluetooth

- Generic Access
- Service Discovery
- Serial Port
- Dial-up Networking
- FAX
- LAN Access using PPP
- Personal Area Network

- Generic Object Exchange
- Generic Object Push
- File Transfer
- Synchronization
- Audio Gateway
- Headset
- Printer
- Human Interface Devices (Keyboard/Mouse)
- Basic Image
- Handsfree
- AV

## Usage environment and your health

emitted by wireless devices like for example mobile phones. the level of energy emitted is far much less than the electromagnetic energy radio frequency electromagnetic energy like other radio devices. However, Wireless LAN PCI Express Mini Card and Bluetooth Daughter Card emit

recommendations reflect the consensus of the scientific community and wireless cards are safe for use by consumers. These standards and safety standards and recommendations, Lenovo believes the integrated Daughter Card operate within the guidelines found in radio frequency Due to the fact that wireless LAN PCI Express Mini Card and Bluetooth

continually review and interpret the extensive research literature result from deliberations of panels and committees of scientists who

situations may for example include: of the building or responsible representatives of the organization. These Mini Card or Bluetooth Daughter Card may be restricted by the proprietor In some situation or environment, the use of wireless LAN PCI Express

- Using the integrated wireless cards on board of airplanes, or in hospitals
- In any other environment where the risk of interference to other devices or services is perceived or identified as harmful.

in a specific organization (e.g. airport or hospital), you are encouraged to ask for authorization to use wireless LAN PCI Express Mini Card or If you are uncertain of the policy that applies on the use of wireless devices Bluetooth Daughter Card prior to turning on the computer.

### Safety information related to Mobile Broadband

- flammable areas (e.g. gas station) or near blasting. Though it is rare, the Mobile Broadband module, like other cellular network devices, Do not use the Mobile Broadband feature on your computer in highly could generate a spark.
- **N** Avoid using Mobile Broadband feature outdoors during a thunderstorm.

- ω system. Refer to rules or regulations of your airline company for your computer unless you are explicitly permitted to do so. Mobile Broadband use. Never enable Mobile Broadband feature on with the operation of the airplane communication or navigation transmits radio frequency (RF) energy which could cause interference radio transceiver. When it is turned on, it intermittently receives and built-in Mobile Broadband module on your computer is a low-power Use of mobile devices on board aircraft is explicitly prohibited by many airlines companies, especially during take-off and landing. The
- 4 equipments in hospitals are sophisticated and are susceptible to near medical equipment without requesting permission. electromagnetic interference. Do not enable Mobile Broadband feature Follow restrictions when using your computer in hospitals. Some
- O implanted device to malfunction. If patients have any doubt that there the computer and contact the doctor for more information. is interference taking place, immediately disable the wireless radio on that use of Mobile Broadband feature on this computer may cause the equipment. Patients with cardiac pacemakers should be well aware implanted cardiac pacemakers and other medically implanted The Mobile Broadband communication may affect the operation of
- <u></u> possible. Therefore you should never rely upon the device for essential support voice calls, hence their use for essential communications is not The Mobile Broadband module embedded in your computer does not communications

## Electronic emissions notices

type 20115, 1304. The following information refers to Lenovo IdeaPad Tablet K1 , machine

### Federal Communications Commission (FCC) Statement

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

- 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

order to meet FCC emission limits. Proper cables and connectors are Properly shielded and grounded cables and connectors must be used in

modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment. recommended cables or connectors or by unauthorized changes or any radio or television interference caused by using other than available from Lenovo authorized dealers. Lenovo is not responsible for

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

FCC RF Radiation Exposure Statement:

- antenna or transmitter. 1. This Transmitter must not be co-located or operating in conjunction with any other
- antenna during transmitting. environment. This device was tested for typical hand held operations with the device contacted directly to the human body to the sides of the device. To maintain compliance with FCC RF exposure compliance requirements, avoid direct contact to the transmitting 2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled

Responsible party:

Morrisville, NC 27560 1009 Think Place - Building One Lenovo (United States) Incorporated

Telephone: (919) 294-5900



Canada Class W **Emission Compliance** Statement

This Class B digital apparatus complies with Canadian ICES-003

#### Avis de conformité à la réglementation d'Industrie Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du

#### German Class W Compliance Statement

Deutschsprachiger EU Hinweis:

### Hinweis für Geräte der Klasse B EU-Richtlinie zur Elektromagnetischen Verträglichkeit

EU-Mitgliedsstaaten und hält die Grenzwerte der EN 55022 Klasse B ein. Rechtsvorschriften über die elektromagnetische Verträglichkeit in den 2004/108/EG (früher 89/336/EWG) zur Angleichung der Dieses Produkt entspricht den Schutzanforderungen der EU-Richtlinie

übernimmt keine Verantwortung für die Einhaltung der ohne Empfehlung der Lenovo gesteckt/eingebaut werden. verändert bzw. wenn Erweiterungskomponenten von Fremdherstellern Schutzanforderungen, wenn das Produkt ohne Zustimmung der Lenovo von der Lenovo empfohlene Kabel angeschlossen werden. Lenovo beschrieben zu installieren und zu betreiben. Des Weiteren dürfen auch nur Um dieses sicherzustellen, sind die Geräte wie in den Handbüchern

could void the user's authority to operate the equipment for compliance Changes or modifications not expressly approved by the party responsible

#### Deutschland:

### von Betriebsmittein Einhaltung des Gesetzes über die elektromagnetische Verträglichkeit

elektromagnetische Verträglichkeit von Geräten"). Dies ist die Umsetzung Bundesrepublik Deutschland. der EU-Richtlinie 2004/108/EG (früher 89/336/EWG) in der Verträglichkeit von Betriebsmitteln" EMVG (früher "Gesetz über die Dieses Produkt entspricht dem "Gesetz über die elektromagnetische

für Geräte der Klasse B. Juli 2007 (früher Gesetz über die elektromagnetische Verträglichkeit von elektromagnetische Verträglichkeit von Betriebsmitteln, EMVG vom 20. Zulassungsbescheinigung laut dem Deutschen Gesetz über die Geräten), bzw. der EMV EG Richtlinie 2004/108/EC (früher 89/336/EWG),

die Konformitätserklärung nach Paragraf 5 des EMVG ist die Lenovo EMVG das EG-Konformitätszeichen - CE - zu führen. Verantwortlich für (Deutschland) GmbH, Gropiusplatz 10, D-70563 Stuttgart. Dieses Gerät ist berechtigt, in Übereinstimmung mit dem Deutschen

Informationen in Hinsicht EMVG Paragraf 4 Abs. (1) 4:

Klasse B. Das Gerät erfüllt die Schutzanforderungen nach EN 55024 und EN 55022

#### **European Union Compliance Statement Class** W Compliance

European Union - Compliance to the Electromagnetic Compatibility



the installation of option cards from other manufacturers. resulting from a non-recommended modification of the product, including accept responsibility for any failure to satisfy the protection requirements Member States relating to electromagnetic compatibility. Lenovo cannot Council Directive 2004/108/EC on the approximation of the laws of the This product is in conformity with the protection requirements of EU

licensed communication devices. environments to provide reasonable protection against interference with 55022. The limits for Class B equipment were derived for typical residential B Information Technology Equipment according to European Standard EN This product has been tested and found to comply with the limits for Class

cables and connectors are available from Lenovo authorized dealers communications and to other electrical or electronic equipment. Such order to reduce the potential for causing interference to radio and TV other than recommended cables and connectors Lenovo cannot accept responsibility for any interference caused by using Properly shielded and grounded cables and connectors must be used in

## Lenovo Product Service Information

台灣 Lenovo 產品服務資訊如下:

荷蘭商聯想股份有限公司台灣分公司

台北市信義區信義路五段七號十九樓之-

服務電話: 0800-000-700

### Japanese VCCI Class B Statement

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取扱説明書に従って、正しい取り扱いをして下さい。

**Japan Compliance Statement for Power line Harmonics** A statement of compliance to the IEC 61000-3-2 harmonics standard is 20A per phase. required for all products connecting to the power mains and rated less than

日本の定格電流が 204/相 以下の機器に対する高調波電流規制

高調波電流規格 JIS C 61000-3-2 適合品

#### Korea Class B

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## WEEE and recycling statements

### General recycling statement

offers a variety of programs and services to assist equipment owners in be found on Lenovo's Internet site at recycling their IT products. Information on product recycling offerings can responsibly recycle their equipment when it is no longer needed. Lenovo Lenovo encourages owners of information technology (IT) equipment to

http://www.lenovo.com/lenovo/environment/recycling/

# Turkish statement of compliance

Electrical and Electronic Equipment (EEE). The Lenovo product meets the requirements of the Republic of Turkey Directive on the Restriction of the Use of Certain Hazardous Substances in

# Türkiye EEE Yönetmeliğine Uygunluk Beyanı

Eşyalarda Bazı Zararlı Maddelerin Kullanımının Sınırlandırılmasına Dair Bu Lenovo ürünü, T.C. Çevre ve Orman Bakanlığı'nın "Elektrik ve Elektronik EEE Yönetmeliğine Uygundur. Yönetmelik (EEE)" direktiflerine uygundur.

### EU WEEE statements

rather reclaimed upon end of life per this Directive. various products to indicate that the product is not to be thrown away, but as applicable throughout the European Union. This label is applied to determines the framework for the return and recycling of used appliances waste electrical and electronic equipment (WEEE). The Directive labeled in accordance with European Directive 2002/96/EC concerning to countries within the European Union (EU) and Norway. Appliances are The Waste Electrical and Electronic Equipment (WEEE) mark applies only

effects of EEE on the environment and human health due to the presence of them for the return, recycle, recovery of WEEE and minimize any potential unsorted municipal waste, but use the collection framework available to hazardous substances. For additional WEEE information go to: per Annex IV of the WEEE Directive must not dispose of end of life EEE as Users of electrical and electronic equipment (EEE) with the WEEE marking

http://www.lenovo.com/lenovo/environment/recycling/

## Japan recycling statements

### Monitor Collecting and Recycling a Disused Lenovo Computer or

Lenovo Web site at and recycling of disused computers and monitors. For details, visit the through its PC Collecting and Recycling Services, for the collecting, reuse Promotion of Effective Utilization of Resources, Lenovo Japan provides, contractor certified by a local government. In accordance with the Law for and should be properly disposed of by an industrial waste disposal Resources. Computers and monitors are categorized as industrial waste accordance with the Law for Promotion of Effective Utilization of or monitor that is the property of the company, you must do so in If you are a company employee and need to dispose of a Lenovo computer

www.ibm.com/jp/pc/service/recycle/pcrecycle

http://www.ibm.com/jp/pc/service/recycle/pcrecycle

of charge for home-used computers sold after October 1, 2003. For details visit the Lenovo Web site at manufacturer was begun on October 1, 2003. This service is provided free collecting and recycling of home-used computers and monitors by the Pursuant to the Law for Promotion of Effective Utilization of Resources, the

www.ibm.com/jp/pc/service/recycle/personal

/www.ibm.com/jp/pc/service/recycle/personal

### Disposing of a Lenovo Computer Components

disused computer or monitor. drive, use the methods described above for collecting and recycling a properly dispose of disused components, such as a printed circuit board or contain heavy metals or other environmental sensitive substances. To Some Lenovo computer products sold in Japan may have components that

### Computers **Disposing a Disused Battery Pack from Lenovo Notebook**

person's instructions. You also can refer to the instructions at the proper person in Lenovo sales, service, or marketing, and follow that metal hydride battery pack. If you are a company employee who uses a Lenovo notebook computer and need to dispose of a battery pack, contact Your Lenovo notebook computer has a lithium ion battery pack or a nickel

www.ibm.com/jp/pc/environment/recycle/battery

http://www.ibm.com/jp/pc/environment/recycle/battery

also can refer to the instructions at battery pack, you must comply with local ordinances and regulations. You If you use a Lenovo notebook computer at home and need to dispose of a

http://www.ibm.com/jp/pc/environment/recycle/battery www.ibm.com/jp/pc/environment/recycle/battery

## Notice for users in the U.S.A.

California Perchlorate Information:

may contain perchlorate. Products containing CR (manganese dioxide) lithium coin cell batteries

Perchlorate Material — special handling may apply

See <a href="http://www.dtsc.ca.gov/hazardouswaste/perchlorate">http://www.dtsc.ca.gov/hazardouswaste/perchlorate</a>

# Notice on deleting data from your hard disk

storage device called the hard disk. Before you dispose of, sell, or hand information. The data on your computer, some of it sensitive, is stored on a over your computer, you need to delete that data. As computers spread into every corner of life, they process more and more

violate License Agreements. You are advised to check the terms and software, such as operating systems and application software, may even Handing your computer over to someone else without deleting the loaded conditions of those Agreements.

Deleting the data from the hard disk is not easy.

There are methods that seem to delete the data:

- Move the data to the recycle bin, and then choose the Empty recycle bin command
- Use the Delete command.

- Format your hard disk, using the software for initializing it.
- factory-ship state. Using the preinstalled recovery program, bring the hard disk back to

disabled under an operating system such as Windows. The data is still do not delete the data itself. In other words, the data retrieval processing is unexpected purposes. people of bad faith may read and misuse the critical data on hard disks for the data by use of special software for data recovery. There is a risk that there, even though it seems to be lost. Thus, it is sometimes possible to read These operations, however, only change the file allocation of the data; they

of, sell, or hand over your computer. You can destroy the data physically by developed for the purpose. you make use of the software (payware) or service (pay service) specifically magnetic power, thus making the data unreadable. But we recommend that smashing the hard disk with a hammer, or magnetically by means of strong responsibility for deleting all the data from the hard disk when you dispose To prevent the leakage of data, it becomes very important that you take

# Appendix F. Features and Specifications

Model Name: IdeaPad Tablet K1 Machine Type: 20115/1304

**Note:** The following specifications may contain technical inaccuracies or typographical errors. Lenovo reserves the right to improve and/or change specifications at any time without notice.

Form Factor	
Size	264mm x 189mm x 13.3mm
Weight	750g with battery
System	
OS	Android 2.2
CPU	Nvidia Tegra2 T20 1.0GHz
LCD	10.1" HD LED (1280x800 Wide View), Multi-touch support
Communication	3G WWAN/Wifi/Bluetooth
SSD	iNAND 16GB/32GB
Integrated Camera	2.0M on front/ $5.0M$ on back
Battery	Li-Polymer x 2

### Appendix F. Features and Specifications

I/O Ports  AC power adapter jack  SIM card slot
SIM card slot
3.5mm HeadPhone
Micro SD
HDMI portt
Extend Peripheral
Bluetooth earphone & mic

### Trademarks

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

Lenovo

OneKey

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

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

#### 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 <a href="http://consumersupport.lenovo.com">http://consumersupport.lenovo.com</a>.

<sup>\*</sup> Only for the users from the United States.

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Low-power license-exempt radio communication devices (RSS-210)

- Canada Low-power license-exempt rauto common a. Common information
  a. Common information
  Operation is subject to the following two conditions:

  1. This device may not cause interference, and
  Operation in the following two conditions:
- This device may not c
   This device must acce operation of the device.
   Operation in 2.4 GHz This device must accept any interference, including interference that may cause undesired
- b. Operation in 2.4 GHz band To prevent radio interference to the licensed service, this device is intended to be operated indoors and installation outdoors is subject to licensing.

  Canada de faible puissance exempts de licence des appareils de communication radio (CNR-210)

- a. Informations communes
  Son fonctionnement est soumis aux deux conditions suivantes:
  1. Ce dispositif ne peut causer des interférences, et
  2. Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement du dispositif.
- Le fonctionnement en bande de 2,4 GHz Pour prévenir les interférences radioélectriques aux services
- cet appareil est destiné à être exploité à l'intérieur et à l'extérieur d'installation est soumise à licence

IC radiation exposure statement This EUT is compliance with SAR for general population/uncontrolled

specified in limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures

or transmitter. Note: The county code selection feature is disabled for products marketed in the  ${\tt US/Canada}$ . 1528. This device and its antenna(s) must not be co-located or operating in conjunction with any

Déclaration IC exposition aux rayonnements Cette EST est le respect de SAR pour la population générale limites

spécifiées dans la norme IEEE 1528. Cet appareil et son antenne (s) ne doit pas être co-localisés ou fonctionner d'exposition non contrôlée dans les IC RSS-102 et a été testé conformément aux méthodes et procédures

conjointement avec une autre antenne ou transmetteur. Remarque: La fonction code de comté de sélection

désactivée pour les produits commercialisés dans les États-Unis et le Canada

#### 低功率電波輻射性電機管理辦法

第十二條經型式認證合格之低功率射頻電機

非經許可, 公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時

應立即停用,並改善至無干擾時方得繼續使用

前項合法通信,指依電信規定作業之無線電信。

低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾