Version 1.0

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Lenovo 3000H User Guide

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Explanation on Marks

Danger: Watch out for high risks

Caution: Watch out for medium risks

Attention: Pay attention to low risks

Recommendation: Helpful tips

Prohibited: Dangerous operations

Contents

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Chapter 1   ## Instruction for Use of Computer Hardware

This chapter will mainly introduce contents as follows:

➢ Front view of the chassis (Instruction for use of buttons and functional keys on the front panel of the chassis)
➢ Rear view of the chassis (Instruction for use of all I/O connectors on the rear panel of the chassis)
➢ Connection method of the speaker
➢ Keyboard

Hardware Notice

This chapter will describe some necessary operation for the use of computers, including the method and helpful tips on the connection of components appropriately. Be sure to read it carefully.

(!) ***Note:*** *The configuration of all models depends on the actual product you purchase.*

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1.1 Front View of the Chassis (Instruction for use of buttons and functional keys on the front panel of the chassis)
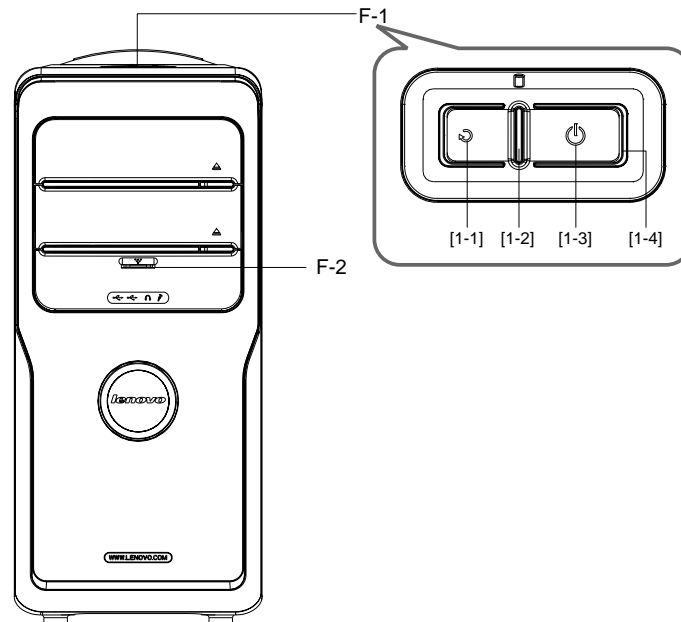

F-1 The top button

    [1-1] Reset Key: Press this key to restart computer forcibly. It is recommended to take this operation with caution.

    [1-2] Hard Disk Drive Indicator: Indicates read/write operations of the hard disk.

    [1-3] Power Switches: Press this key to turn on/off computers.

F-2 Preposition Digital Panel: Open the preposition digital panel and the preposition digital connectors such as USB will be shown as below:

USB connector   **USB connector**   **Speaker/headphone connector**   **Microphone connector**
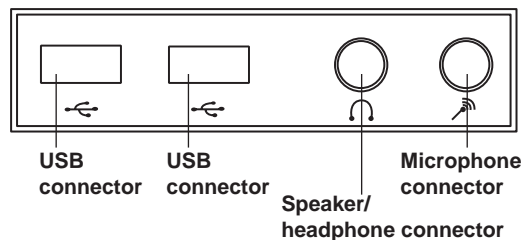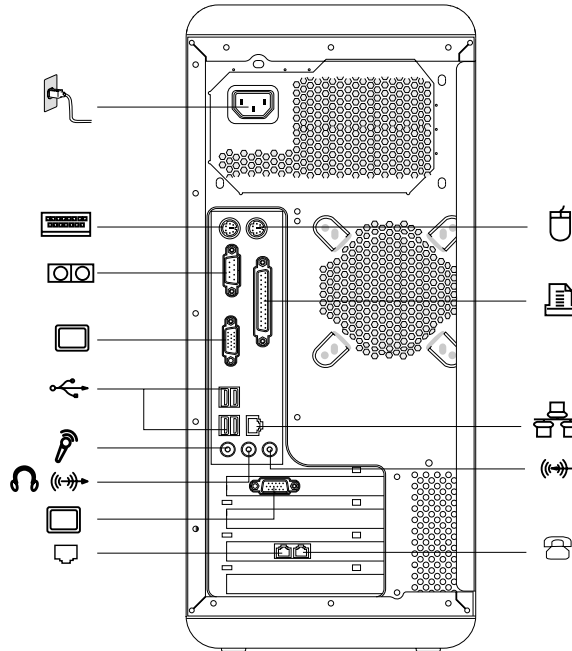
D-1 USB Connector: Used to connect USB devices.

D-2 Speaker/Headphone Connector: Used to connect speakers or headphones. If it is necessary to connect the headphone, remove the speaker plug and insert the headphone plug.

D-3 Microphone Connector: Used to connect the microphone and input the sound received by the microphone into the computer.

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1.2 Back View of the Chassis (usage of all I/O connectors on the rear panel of the chassis)

The rear panel connectors of some models are as illustrated below, please refer to them according to your actual configuration;

Power connector: Used to connect the mainframe to the power supply

PS/2 mouse connector: Used to connect PS/2 mouse

PS/2 keyboard connector: Used to connect PS/2 keyboard

Serial port: Used to connect devices with serial port (COM port)

Parallel port: Used to connect devices with parallel port

Onboard graphics card connector: Used to output monitor signals (VGA signals) through the signal cable connected with the monitor. (On models with external graphics card, onboard graphics card signals are shielded with no VGA signal outputs - some models are equipped with this connector)

USB connector: Used to connect USB devices

Ethernet connector: Used to connect LAN or broadband devices

⬜ —— **External graphics card connector:** Used to output monitor signals (VGA signals) through the signal cable connected with the monitor. If the graphics card is equipped with S-Video connector and cabled to a TV, pictures displayed on the monitor screen may be redirected to the TV (some models are equipped with external graphics card).

▢ —— Used to attach your computer to a telephone line for modem use. (some models equipped with this connector)

☎ —— Used to attach a telephone line to your computer for modem use. (some models equipped with this connector)

1.3 Connection of the speaker

[Y-1]   [Y-2]   [Y-3]   [Y-4]   [Y-5]
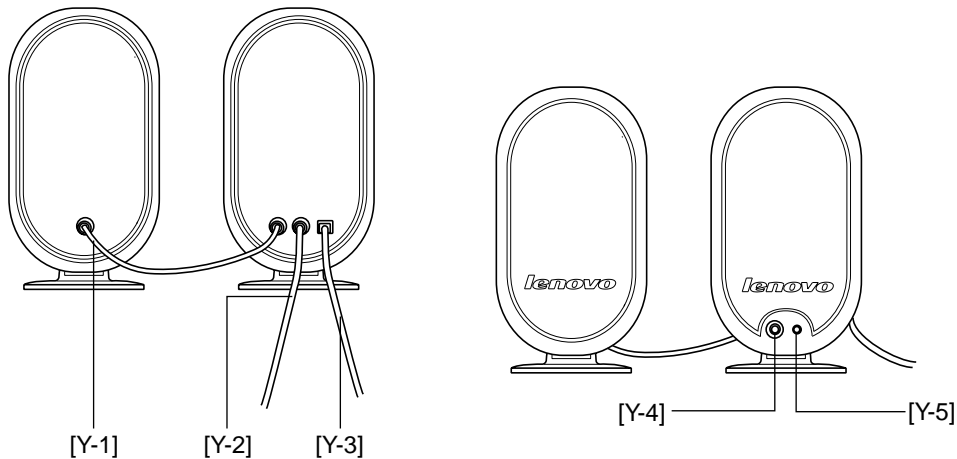
Y-1 Primary/secondary speaker connection cable
Y-2 Connect to mainframe speaker/headphone connector
Y-3 Speaker power cord
Y-4 Volume adjusting knob
Y-5 Speaker power switch

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1.4 Helpful tips on computer cabling and installation
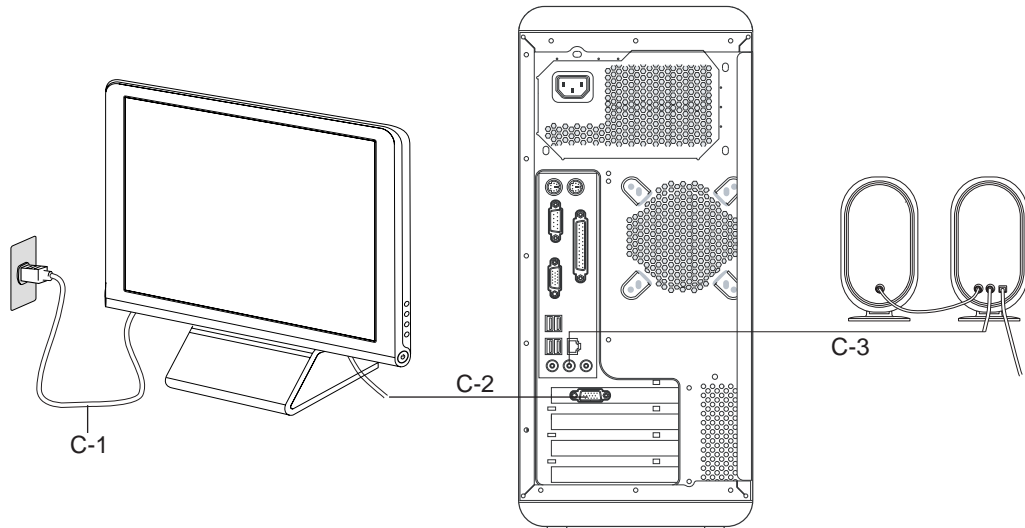
C-1 Monitor power cord　　　**C-2 Monitor data cable**　　　**C-3 Speaker audio signal cable**

Note:

1. *Keep speakers away from monitor to avoid magnetic interference.*
2. *Ensure the cables between monitor and mainframe are securely connected and the screws on the connector of monitor signal cable are tightened.*
3. *Connect the monitor signal cable to the onboard graphics card connector if the model you purchase is not equipped with stand-alone graphics card.*

1.5 Keyboard
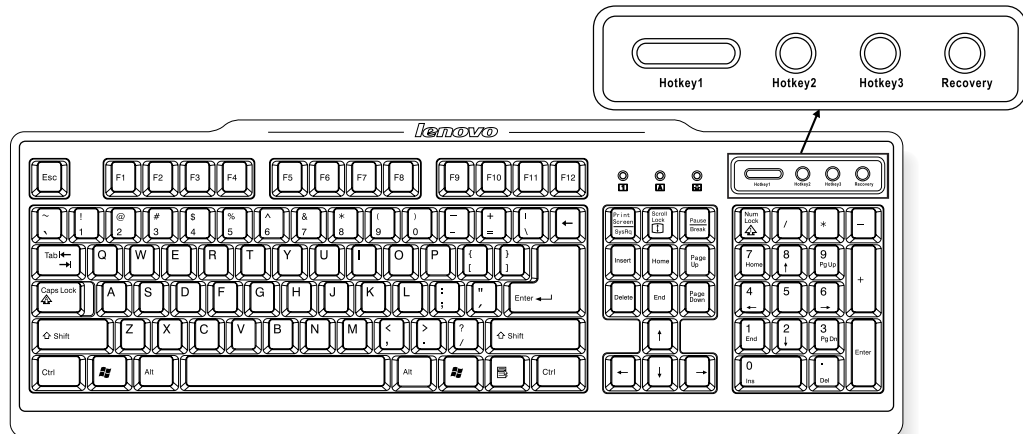
The shortcut key on the keyboard can start up the application as soon as you press the key.

Hotkey1, 2, 3——Provide you shortcut keys to start up the program you defined in advance.
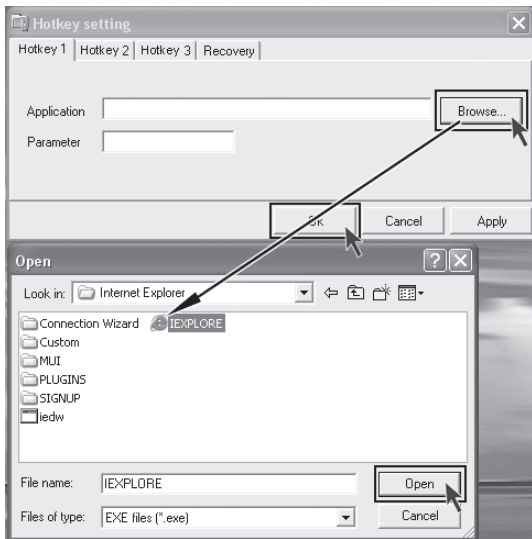Recovery——If the computer provide the Recovery function, Press this key when *"LENOVO"* displayed on the start screen. In Windows system, the key *"Recovery"* acts as the *"Hotkey"* key.

The method of defining the shortcut key:
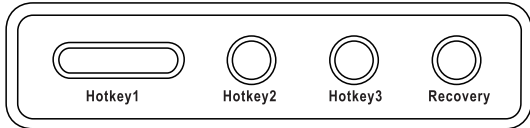
First step

Press one of the shortcut keys ,the opposite Hotkey setting dialog box displays.You can define the key's function.

Second step

Enter executive program name in the *"Application"* field or click *"Browse…"* to open the folder and find out the program, then select it and click *"Open"*.
At last click *"OK"* to finish defining.

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System Installation

This chapter provides the following:

OneKey Recovery

By using the OneKey Recovery function, it will restore your C partition back to the orginal factory default or to the most recent backup saved. All data inthe C partition will then be erased. Other partitions in the hard disk will not change.

⚠ ***Note:*** *Your C partition must use the FAT32 partition format to successfully use the OneKey Recovery function.*

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2.1 One-Key Recovery
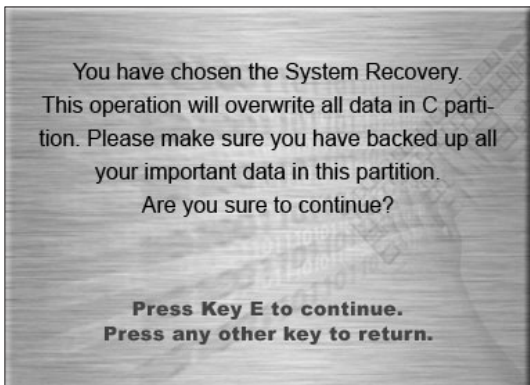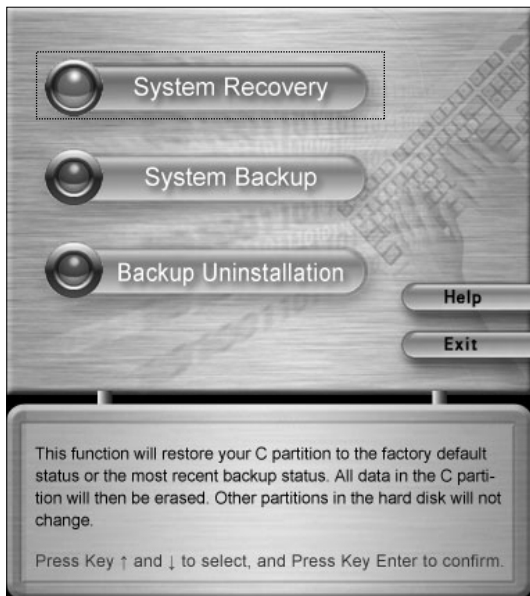
System Recovery

Launch the System Recovery feature by Press the *"Recovery"* key on the keyboard,when *"LENOVO"* displayed on the start screen.selecting *"System Recovery"*.

ⓘ *Note: System Recovery will overwrite all of the data in drive C; please backup relevant data before performing system recovery to prevent your important data from missing.*

System Recovery

Follow the onscreen instructions, and press *"E"* on the keyboard to start recovery if you are sure to recover.
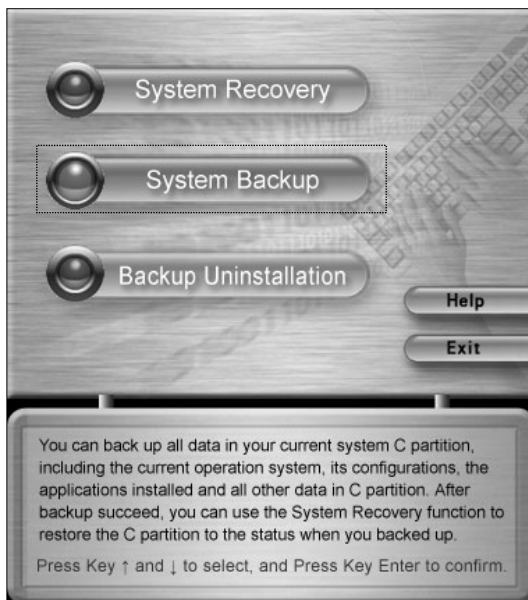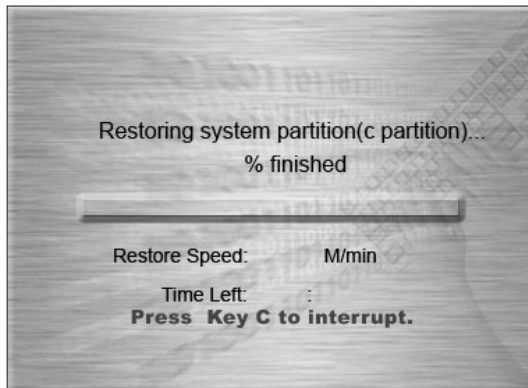
System Recovery

Please wait in the process of system recovery.
Do not interrupt the operation.

System Recovery

System Recovery
After the system is recovered successfully, the software prompts to restart the computer.
Restart the computer and enter the system.

System Backup

This software provides the feature to backup data currently in drive C. Select System Backup.

⚠ *Note:*

    1. Notice that you will overwrite the backup in the hidden partition created for factory delivery or the last backup created when you backup the existing data in drive C.

    2. Do not re-modify size and format of drive C after backup. Otherwise the backup data cannot be recovered normally.
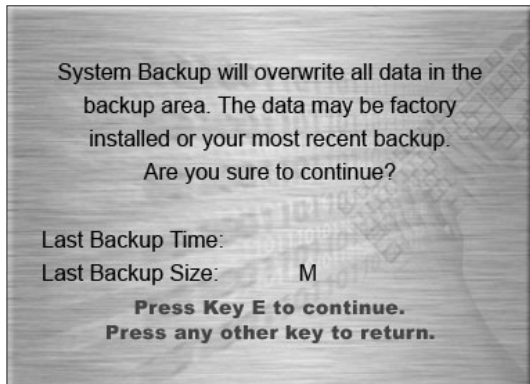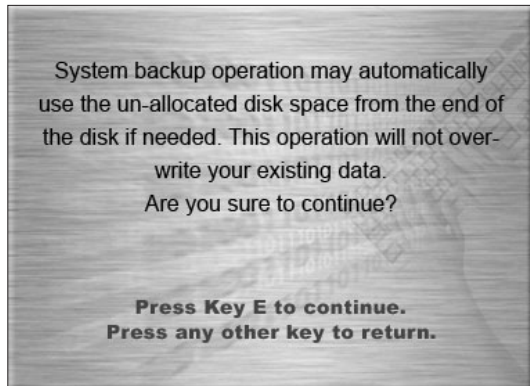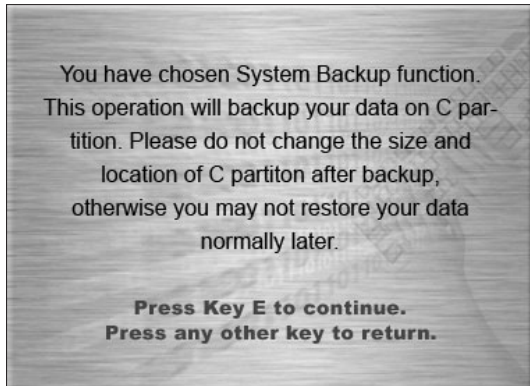
System Backup

Press *"E"* and continue if you are sure to backup.

You have chosen System Backup function. This operation will backup your data on C partition. Please do not change the size and location of C partiton after backup, otherwise you may not restore your data normally later.

Press Key E to continue.
Press any other key to return.

System Backup

The backup operation will obtain enough space by adjusting the data at the end of the hard disk; press *"E"* and continue if you are sure to backup.

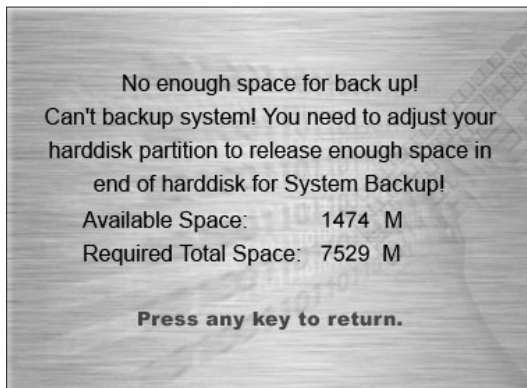System backup operation may automatically use the un-allocated disk space from the end of the disk if needed. This operation will not over-write your existing data.
Are you sure to continue?

Press Key E to continue.
Press any other key to return.

Follow the onscreen instructions, and press *"E"* on the keyboard to start backup if you are sure to backup.

System Backup will overwrite all data in the backup area. The data may be factory installed or your most recent backup.
Are you sure to continue?

Last Backup Time:
Last Backup Size: M
Press Key E to continue.
Press any other key to return.

```
Backing up system partition(c partition)
            % finished


Backup Speed:          M/min
    Time Left:       :
Press  Key C to interrupt.
```
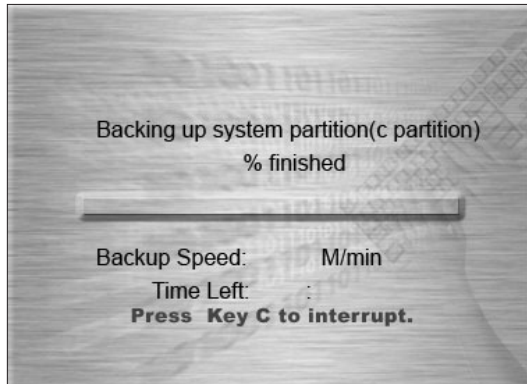
System Backup

Please wait in the process of system backup.
It is not recommended to interrupt the operation, if possible.

```
        System Backup
has been finished successfully!




     Please press any key
   to reboot your computer.
```

System Backup

After the system is backed up successfully, the software prompts to restart the computer.
Restart the computer and enter the system.

```
      No enough space for back up!
Can't backup system! You need to adjust your
harddisk partition to release enough space in
    end of harddisk for System Backup!
Available Space:          1474  M
Required Total Space:   7529  M

      Press any key to return.
```

System Backup

If the System Backup prompt is as shown:
There is not enough space for backup!
You need to adjust your harddisk space to release enough unallocated space at the end of harddisk.

⊙ *Note: The unallocated space should exceed the required total space in size.*

Lenovo 3000H User Guide **11**
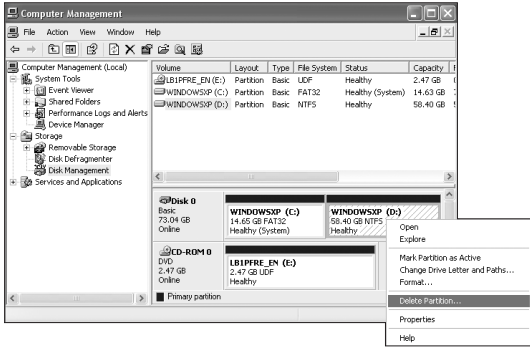
Space Release

Enter "*Computer Management*" in the "*Control Panel*". Delete partition at the end of the harddisk to get enough space.

ⓘ **Note:** *Please make sure to backup all your data before performing space release. If this is not done, all data in the released space will be lost.*
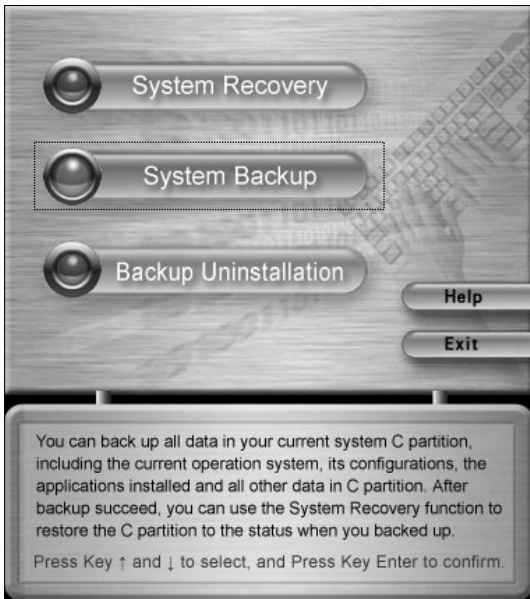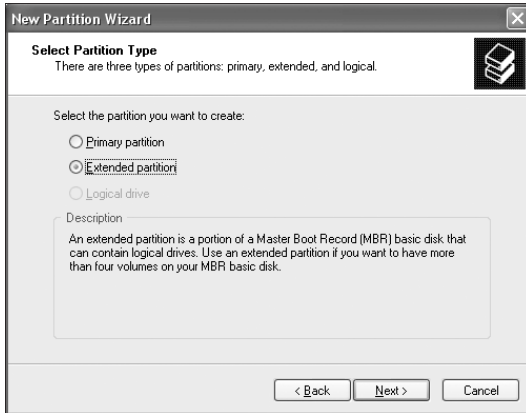

System Backup

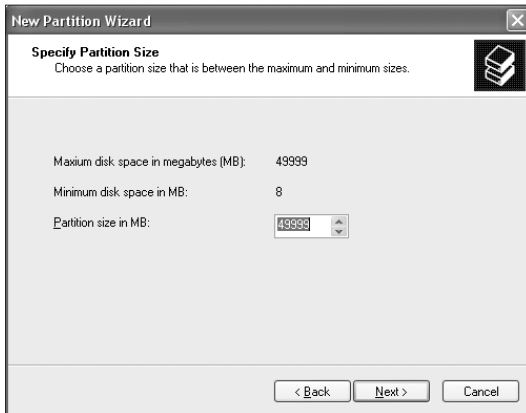Then startup *"System Backup"* to backup the current data in the C partition.
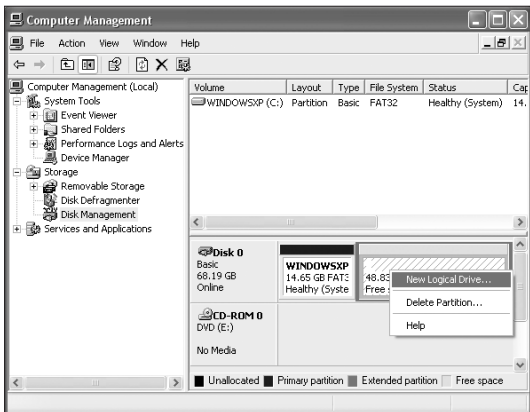
New Partition

- After system backup, Right Click on *"My Computer"* Click on *"Manage"*.
- Now click on *"Disk management"* in the list, Right click on Unallocated Space
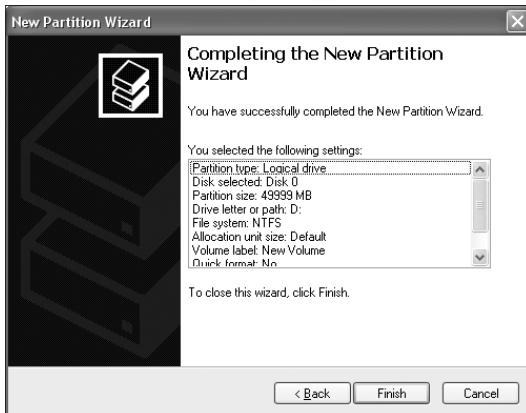- Click on *"New Partition"*.

New Partition

Select *"Extended partition"*. Then click *"Next"*.

New Partition

Fill in the Partition size in MB.

New Partition

Click *"Finish"* to complete the new partition establishment.

Backup Uninstallation

You may release the backup space by performing *"backup uninstallation"* if you no longer need the backup information. Select *"Backup Uninstallation"* from the Backup screen.

Backup Uninstallation

Perform uninstallation by clicking *"E"* after confirmation.

ⓘ **Note:** *Some space released becomes free space and cannot be merged to the last partition.*

Backup Uninstallation

Back uninstallation complete. Press any key to reboot.

This function can uninstall the backup space. After uninstallation, the space for backup will be released as free space. You need to backup your system again before you can use System Recovery function.

Press Key ↑ and ↓ to select, and Press Key Enter to confirm.

Help

Press key (↑) or (↓) to select *"Help"*,and press key *"Enter"* to confirm. You can get helpful tips about how to use the OneKey Recovery function.

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Chapter 3

The introduction on usage of software

This chapter provides the following:

➢ The methods of using WinDVD
➢ The method of burning optical discs.
➢ The usage of anti-virus software.

(!) *Note:*

1. All the software interfaces follow the software provided with the computer you purchased.

2. The burning function described in this chapter is only applicable to the computers equipped with the rewritable optical drives.

3. If you have any question about Norton AntiVirus,please refer to the following access for help:
http://www.symantec.com/region/reg_ap/techsupp/consumer.html

4. If you have any question about RecordNow, please refer to the following access for help:
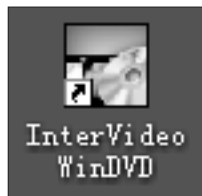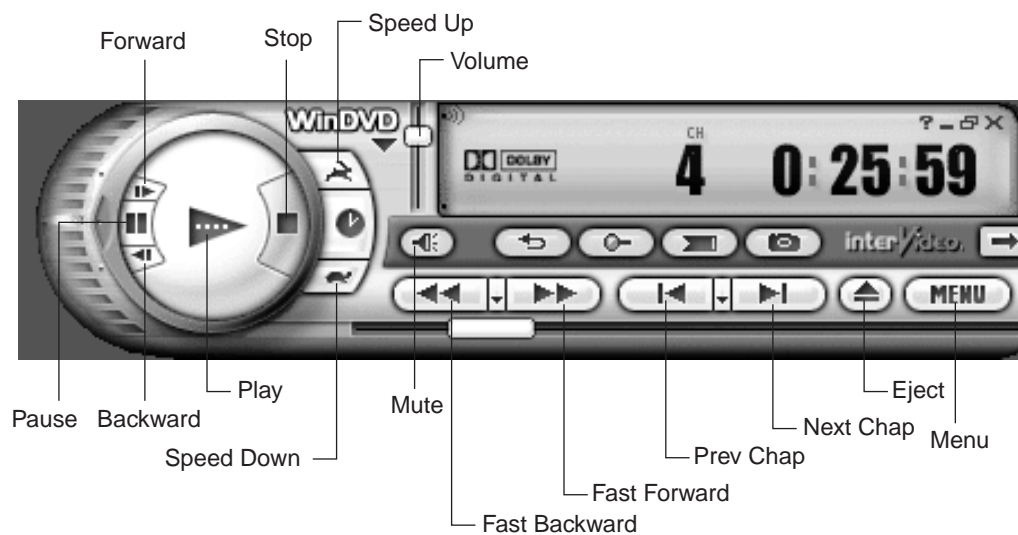*WebMail: http://support.sonic.com*

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3.1 WinDVD

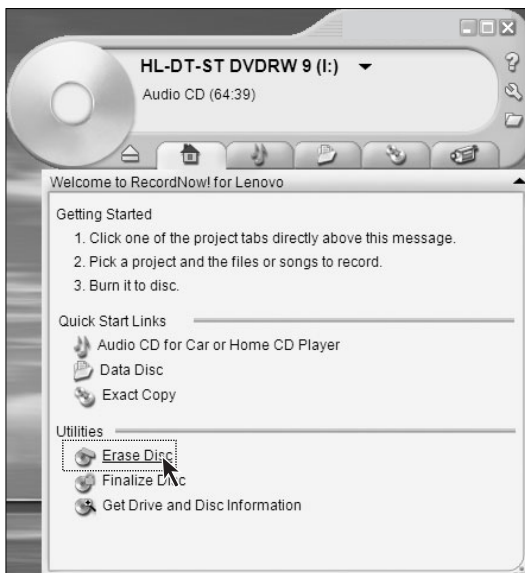WinDVD will help you to play DVD video and movie disk.

Launch

Double-click the *"InterVideo WinDVD"* icon on the desktop to launch the player.

For more information about WinDVD, click the "?" icon.

3.2 Disc Burning

RecordNow burning software enables you to easily burn data files, music, videos into CD, VCD or other data discs. See the following procedure for details:

Launch

Double-click the RecordNow software icon on the desktop.

Main Feature Screen

You may launch disc burning via the shortcut link of Burn CD and Data Disc on the main screen.
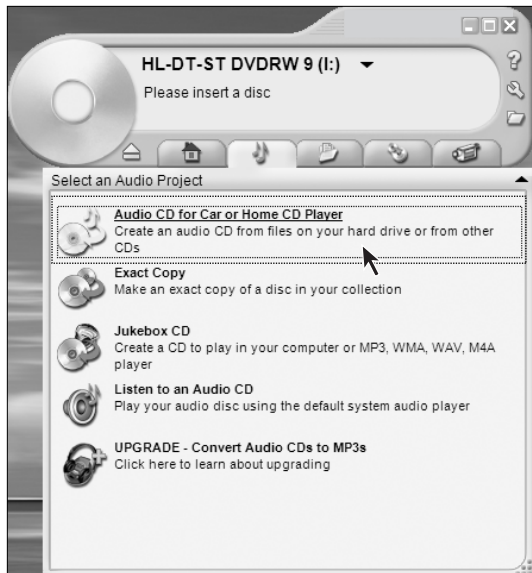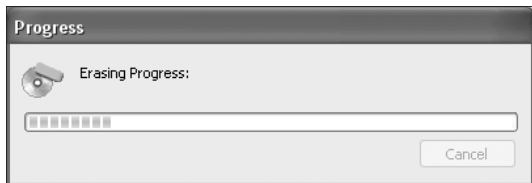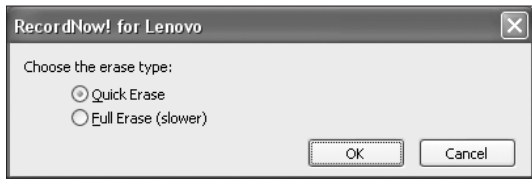You may also erase and finalize disc.

Erase Disc

You may erase data within the disc for erasable discs.
Click *"Erase Disc"*.

Erase Disc

Click *"OK"* to erase the disc

Erase Disc

Select either *"Quick Erase"* or *"Full Erase"*.

Erase Disc

Please wait while erasing the disc.
The disc will be ejected when erasing is
completed, then remove the erased disc for
later use.

Burn Music Disc – Step 1

With this option, you may burn music in
your hard disk into CD.
You can create music CD by selecting Audio
CD for Car or Home CD Player.

ⓘ **Note:** *The following conditions might lead to*
burning failure:
  - *File is being used by other*
    applications.
  - *File recorded with non-standard*
    sampling frequency. (Standard files
    are: **WAV** *and* **MP3** *must be* **16***-bit*
    files recorded with sampling
    frequency of **22/44.1KHz***.* **WMA** *must*
    be **16***-bit stereo files recorded with*
    sampling frequency of **44.1KHz***.)*
  - **WMA** *file that has implemented copy*
    *protection (***Windows** *license*
    protection).
  - *Audio files in non-***MP3***/***WMA***/***WAV***
    format.

Burn Music Disc – Step 2

Click View and open the music folder, then add the music to the dialog box.

Burn Music Disc – Step 3

Select the music to be burned, and then click Add to add the music to the Burn Disc dialog box.
Adjust the sequence of the music items with the UP/DOWN arrow, get ready and click Burn. Start burning.
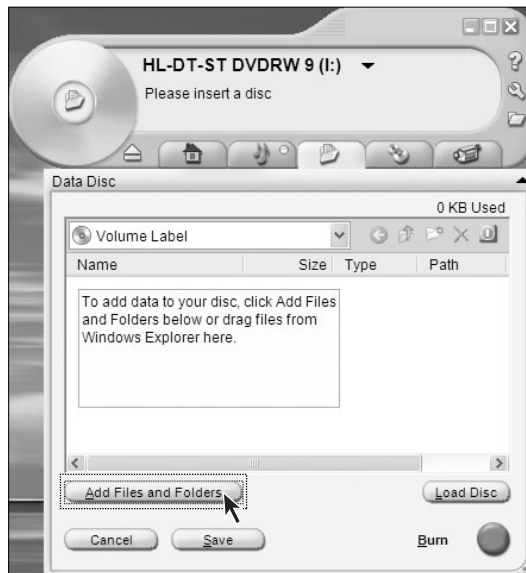
Burn Data Disc – Step 1

With this option, you may select data files from your hard disk and burn the files into data disc.
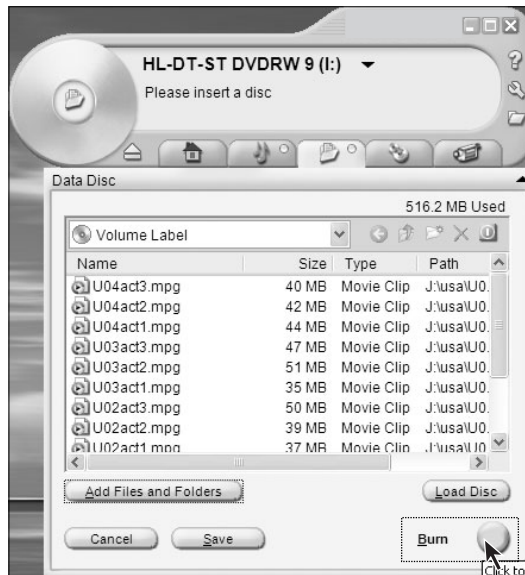
Click *"Data Disc"*.

Burn Data Disc – Step 2

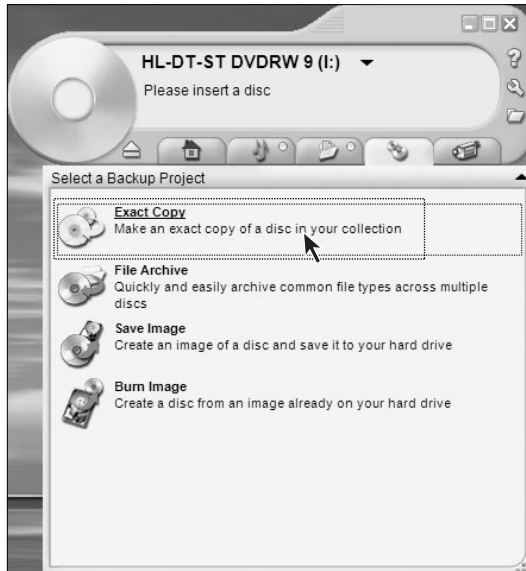Open the Browse Data dialog box, then click *"Add File and Folder"*.

Burn Data Disc – Step 3

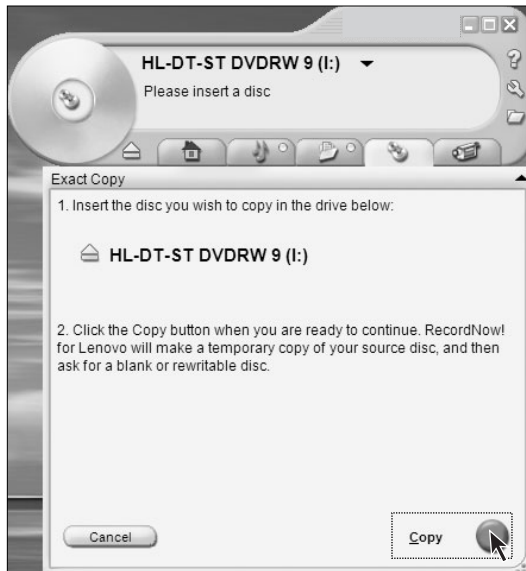Open the Browse Hard Disk Files dialog box and select the files to burn.

Burn Data Disc – Step 4

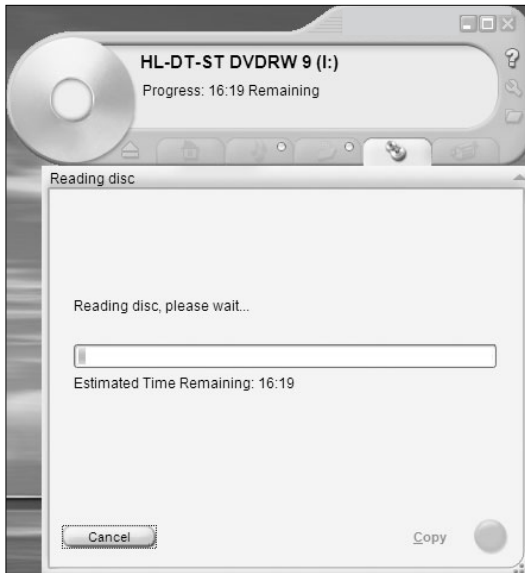Click *"Burn"* after you have selected all files.

Exact Copy – Step 1

With this option, you may copy disc. Click *"Exact Copy"*.
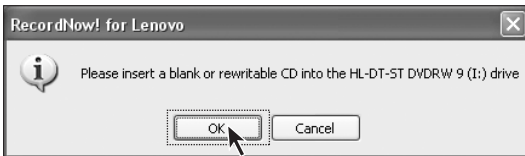
Exact Copy – Step 2

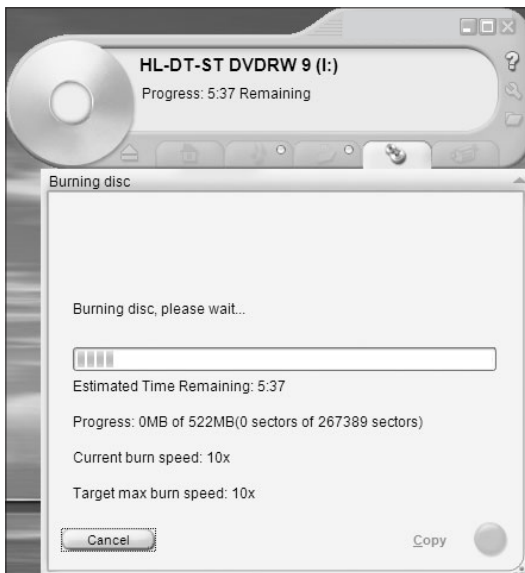Insert the source disc after the illustrated screen appears.
Click *"Copy"*.

Exact Copy – Step 3

Wait while copying.

Exact Copy – Step 4

The illustrated screen appears when the copy process completes. Now remove the source disc and insert a blank disc. Then click *"OK"*.
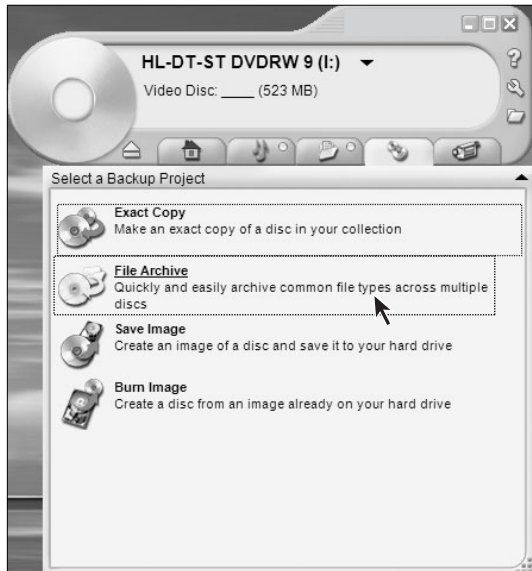

Exact Copy — Step 5

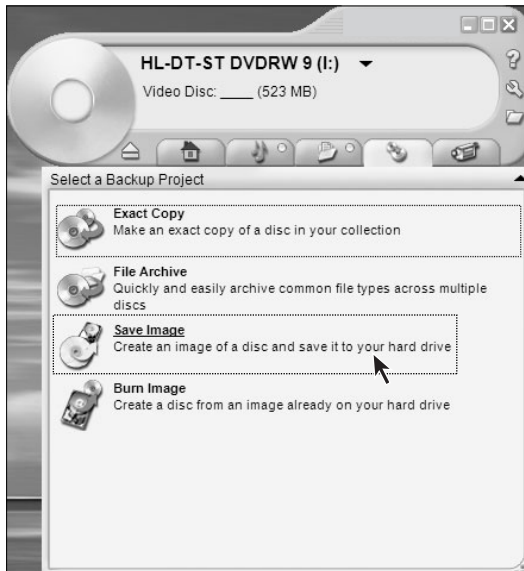Wait while burning.

Exact Copy — Step 6

The disc will be ejected after burning is completed, now remove the burned disc. Disc copy completes, now click Done.

Click *"Make Another"* if a copy is needed.
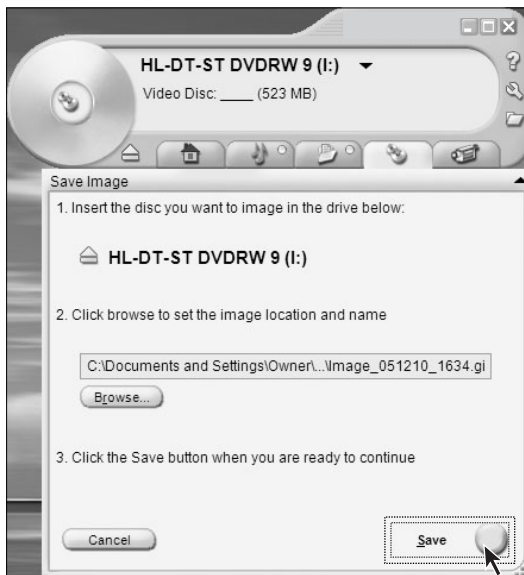
File Archive

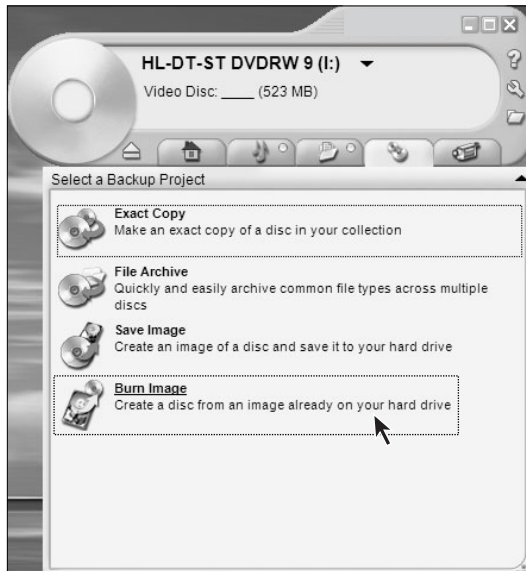Perform achieve management on burned files.

Save Image

Create disc images and save them in hard disk.

Save Image

Insert a disc, then click *"Save"* to create disc images.

Burn Image

Burn the created disc images into discs.
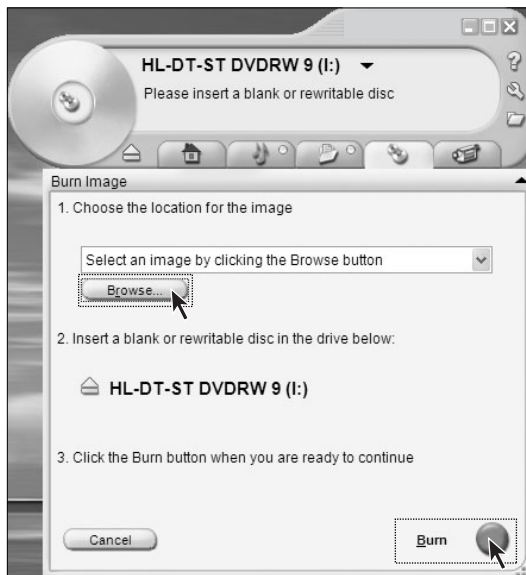
Burn Image

Click *"Browse"* and find the pre-burned disc image files, then click *"Burn"*. Now click Burn to create the disc.

Burn Video Files

With this option, you may export and burn videos into video discs.

3.3 Norton
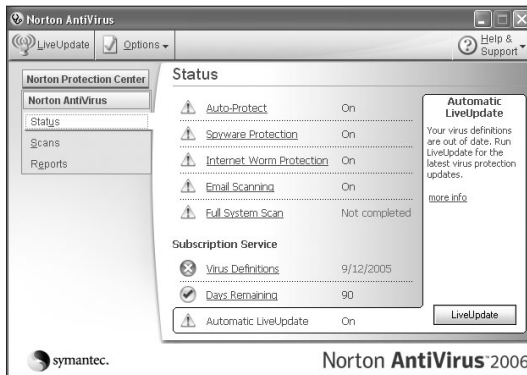
Main Screen

The main screen of Norton AntiVirus displays when it has been installed and set up appropriately. Now you can see the status of the AntiVirus software.
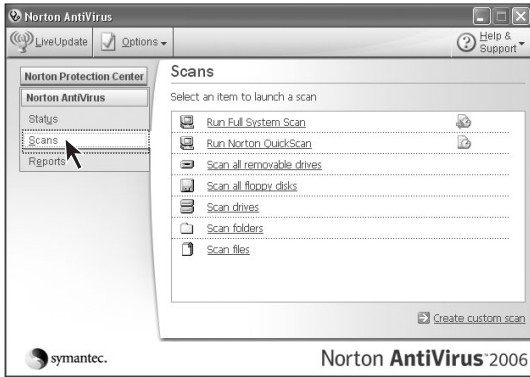
Scan for Virus - Step 1

Click Scans and select scanning method in Scans dialog box.
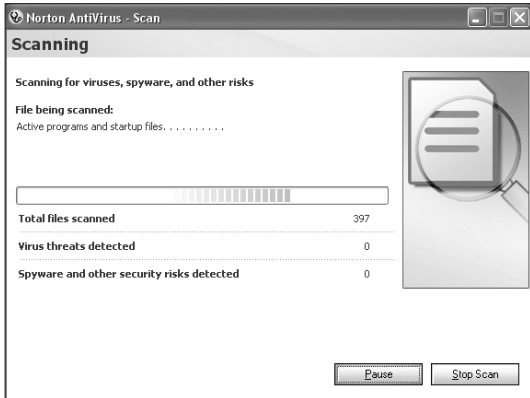
Scan for Virus - Step 2

Start scanning for viruses. Please wait in the process of virus scanning.
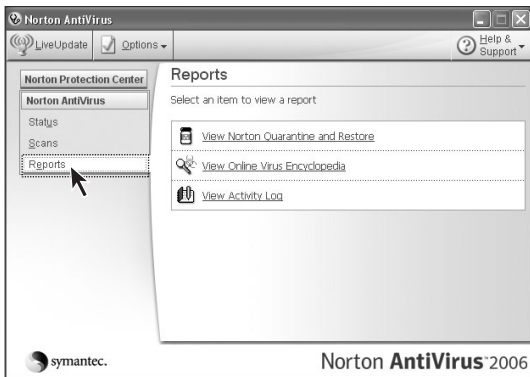
Scan for Virus - Step 3

Click Reports to view the results of virus scanning.
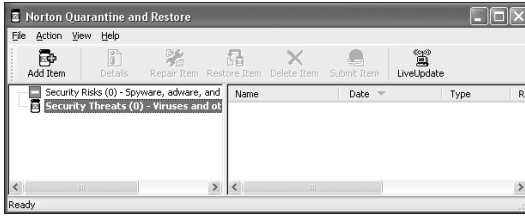
Scan for Virus - Step 4

Click View Norton Quarantine and Restore in the left of the dialog box to view the list of viruses.

Virus Definition Update - Step 1

When the illustrated dialog box appears, you need to update the virus definition.
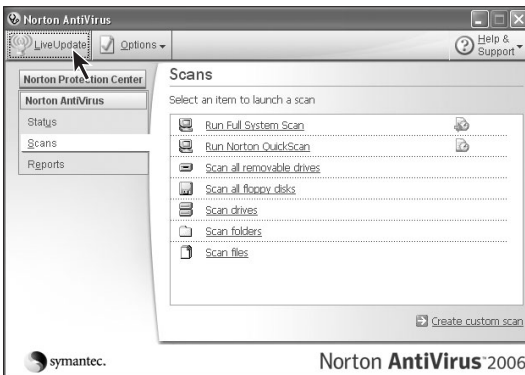
Virus Definition Update - Step 2

Click *"LiveUpdate"* on the main screen of the software.

(!) **Note:** *Have Internet connected before updating the virus definition.*
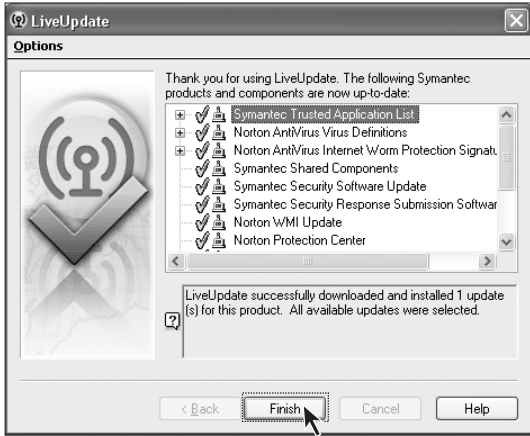
Virus Definition Update - Step 3

Follow the software instructions, and then click Finish to end the update when it is completed.
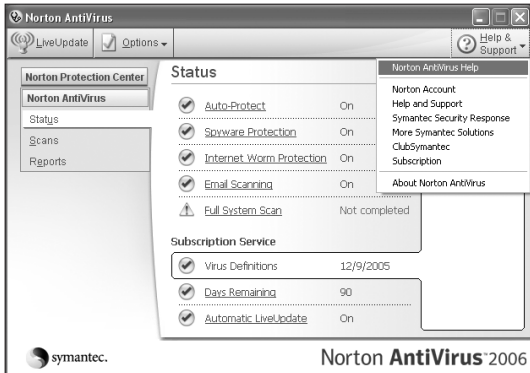
Help Information

To obtain more information on the AntiVirus software, you may obtain help by clicking Help & Support.
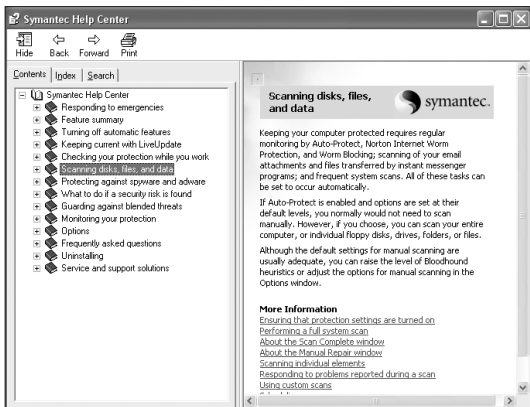
4

Safe Usage of Computer

The following topics will be introduced in this chapter:

➢ System restoration
➢ Disk cleanup
➢ Hard disk error checking and fixing
➢ Disk defragment
➢ Daily maintenance

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4.1 System Restoration

Sometimes the system might encounter problems due to false operations; we could easily have it recovered through system backup and restoration features.
We may restore the system settings to the normal one as illustrated below:

(Note that the existing system settings will change after restoration, please check backup conditions of all settings)

Step 1

Click Start in the lower left corner of the desktop. Click All Programs from the pop-up menu.

Step2

Click Accessories from the pop-up menu of All Programs.

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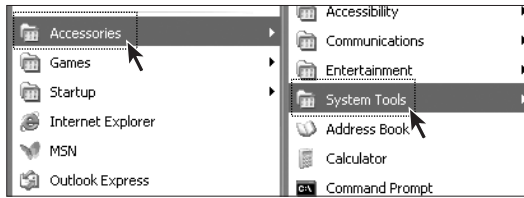
Step 3

Click System Tools from the pop-up menu of Accessories
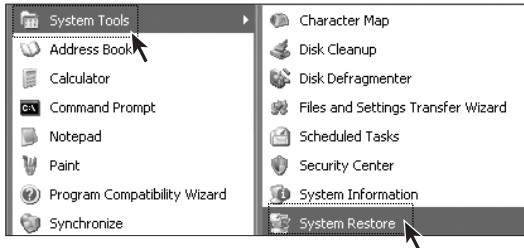
Step 4

Click System Restore from the pop-up menu of System Tools.
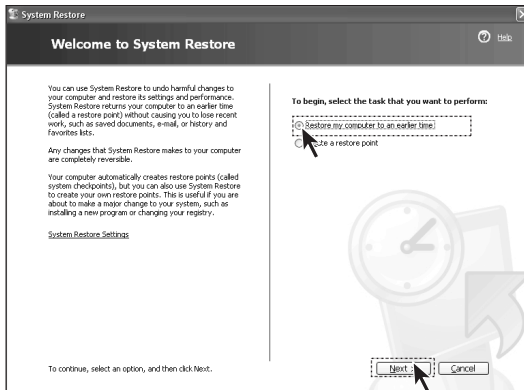
Step 5

Select Restore my computer to an earlier time, then click Next.
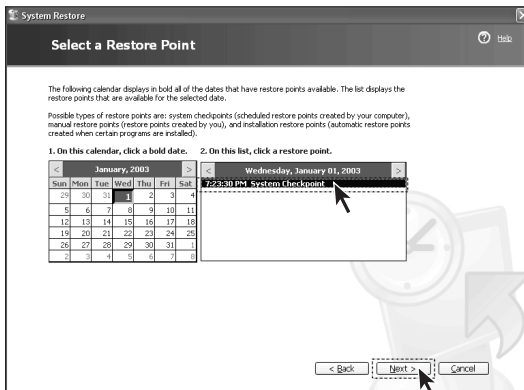
Step 6

Select a nearest date from the timetable when the system was normal (you may select month by clicking the arrows above the timetable).Locate the System Check Point in the right pane or click the Restore Point, then click Next.

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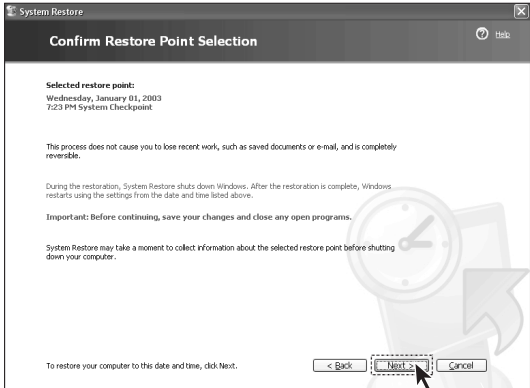
Step 7

ⓘ **Note:** *The system will close all programs before performing system restoration. Please save data, and then click Next.*

The system will start system restoration. The system will prompt that restoration succeeds after completing all procedures. Now click OK.

For safe usage, you may manually set a restoration point before modifying system settings (for example, installing games). Do the following:
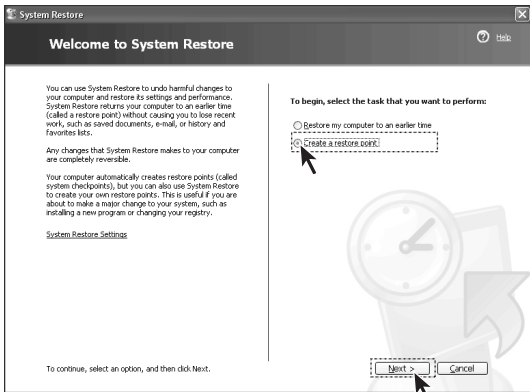
Step 1

Go to the System Restore screen following the above steps, select Create a restore point, then click Next.
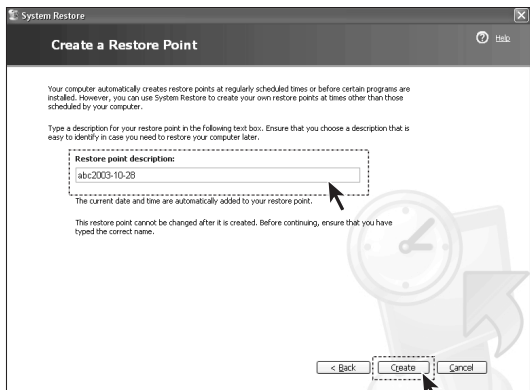
Step 2

Enter the name you create for the point in Restore point description, and then click Create.

Step 3

The system prompts that creation succeeds, and then click the Close button. If this restoration fails, you may backup the relevant data and try One-Key Recovery feature (refer to the content of One-Key Recovery for relevant information).Recovery for more details.

4.2 Disk Cleanup

Periodically cleaning up the disks may enhance computer performance.

Step 1

Select All Programs from Start menu in the lower left corner of the screen, and then select Accessories from All Programs menu.
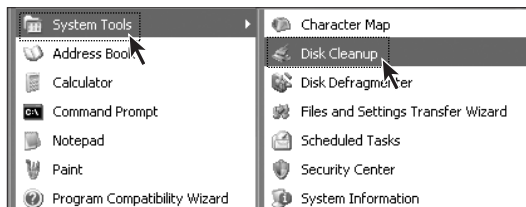
Step 2

Select System Tools from Accessories, and select Disk Cleanup from System Tools. Select the disk partition to clean up.

Step 3

Check the files to be deleted in the pop-up dialog box (usually check all types of files).

Step 4

Click the OK button in the lower right corner.

Step 5

Select Yes in the pop-up dialog box.

4.3 Hard Disk Error Checking and Fixing

Periodically checking and fixing hard disk errors is helpful to maintain favorable status and correct errors encountered while running the system:

Step 1

Double-click My Computer icon on the desktop.
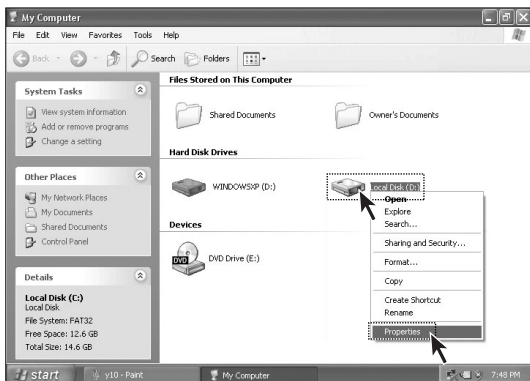
Step 2

Locate the hard disk drive for defragment in My Computer dialog box. Right-click the corresponding icon, then select Properties from the pop-up menu.
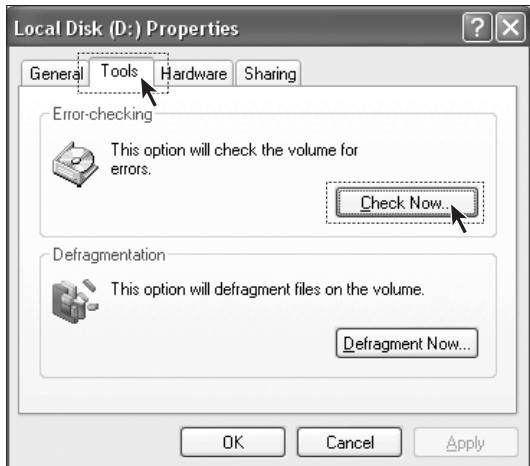
Step 3

Select the Tools tab, and then click Check Now.
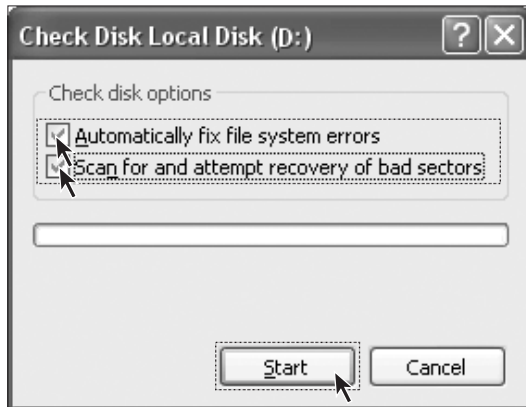
Step 4

Check the two options as illustrated, and then click Start.

Step 5

You cannot start error checking until the computer is restarted and initialized.

4.4 Disk Defragment

Disk fragments refer to the tiny storage areas scattered at different places of the disk - they cannot be re-utilized directly. System performance might decrease if defragment has not been done for a long time. Do the following:
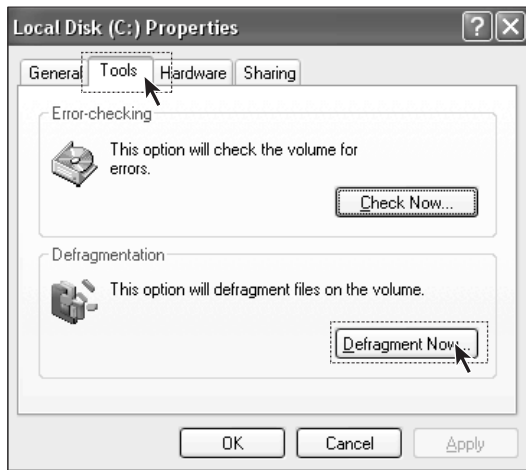
Step 1

Similar with disk error checking, go to the Tools tab of disk Properties and select Defragment Now.
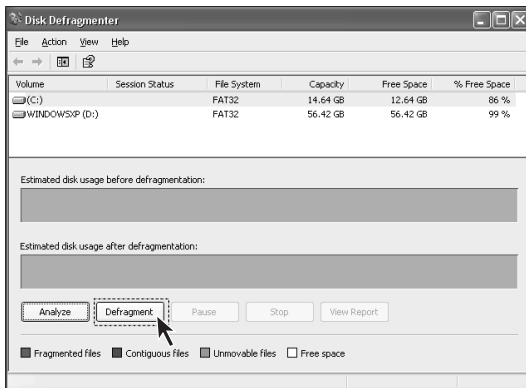
Step 2

Select the drive for defragment (for example, drive C), then click Defragment. Defragment usually takes a long time.

4.5 Daily Maintenance

1. Component Maintenance

Cleaning: Since many components of computer are composed of sophisticated IC boards, it is mandatory to clean periodically and avoid dusts.

Cleaning supplies: vacuum cleaner, soft cotton cloth, clear water (pure water preferred) and cotton swabs can be used to clean the components.

2. General Cleaning Methods

TDusts on the surface of mainframe, monitor, printer, speaker and mouse can be wiped off using soft cloth while dusts at inaccessible corners can be removed by vacuum cleaner.

To clean the keyboard thoroughly, you may shutdown the mainframe and scrub it gently with a cloth dipped in water - do not use the keyboard until it is dry.

Prevent water from entering the computer.

Do not use wet cloth. Do not spray water directly onto the surface of monitor and inside of mainframe.

(!) *Special attention should be given to LCD monitors - keep it clean and avoid grease stain. It is recommended to remove the dusts by brushing gently with a dry cloth for daily cleaning.*
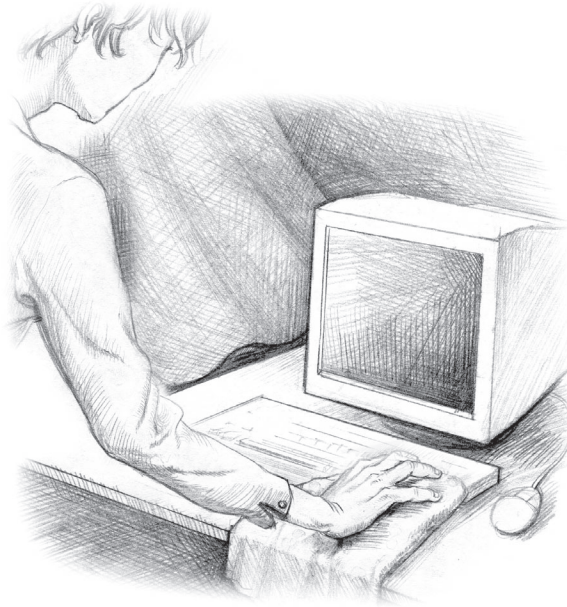
5

Troubleshooting of Common Problems

The following topics will be introduced in this chapter:

- ➢ Display
- ➢ Sound
- ➢ Desktop icons
- ➢ Software problems
- ➢ Optical drives and hard disks

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5.1 Display

1. Blank screen and no picture displayed on the monitor

1) Check whether the monitor has been turned on; press the power button if not yet.

2) Check whether the power cord of the monitor is loose. If so, securely connect the power cord of the monitor.

3) Check whether the signal cable of the monitor is securely connected with the connector of the mainframe graphics card; if not, please shut down the computer and then securely connect the signal cable of the monitor.

2. Settings of Display Properties

The background and icons of the screen can be set by adjusting the display properties. Right-click anywhere without icon on the desktop, then select Properties from the pop-up menu.

You will see options such as Theme, Desktop, Screensaver, Appearance and Settings in the Properties window.

- Desktop option can be used to set background picture;
- Screensaver option can be used to select screensaver;
- Appearance option can be used to set icons and characters;
- Settings option can be used to set resolution and colors.

3. Moire on Screen

Carefully check whether there are devices that generate magnetic interference (such as refrigerator, electric fan, electric drier, UPS, regulator and fluorescent lamp) around the computer with a distance less than 1 meter. Moire interference will also appear on the screen if the monitors of two computers are placed closely (within a range of 1 meter). To solve the problem, move the interfering device away from the computer. If the problem persists, consult Lenovo Service.

5.2 Sound

1. When you connect the headphone to the front audio output connector, the speakers connected to the back audio output connector is soundless.

The front audio output connector is provided for convenience and has a priority higher than the back audio output connector. If speaker or headphone is connected to the front audio output connector, sound is delivered through the front connector while audio devices connected to the back audio output connector are soundless.

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2 Computer Becomes Soundless Suddenly

1) Carefully check whether the cable between speaker and mainframe is appropriately connected.
2) Check whether each sound channel is set to mute. You can double-click the mini-speaker icon in the lower right corner of the taskbar, and then check whether you have checked the Mute option for each channel. If yes, uncheck it by clicking the box.
3) Check whether the volume of each sound channel is set to minimum. If so, adjust the volume to the appropriate level. If the problem persists, please re-install the driver for audio card by clicking Lenovo Applications _ Driver and Software Installation from Start _ All Programs.

3 Record Sound with Microphone

Do the following if you want to record sound with microphone:
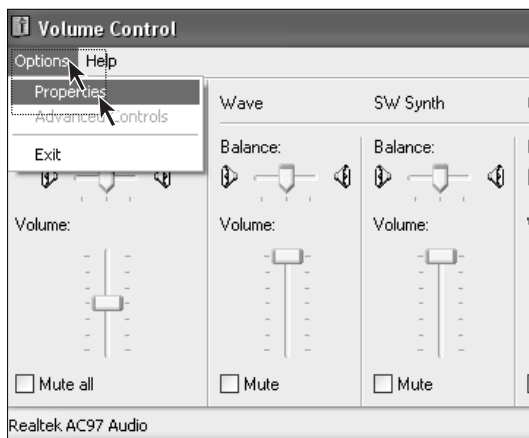
Step 1

Click Options and select Properties from the upper left corner of the Main Volume setting menu.

Step 2

Select Record from the Properties menu. Check Microphone in the scroll box below and click OK.

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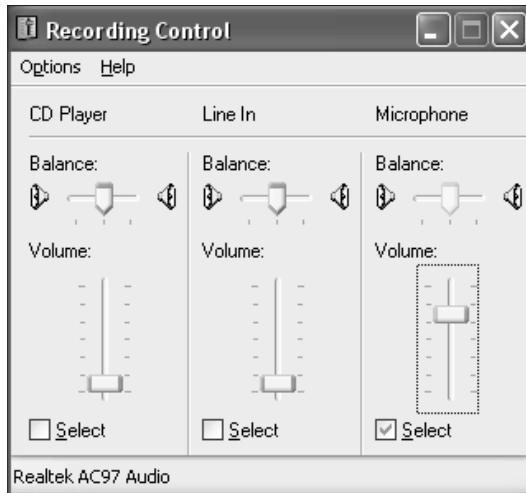
Step 3

Check Select for the microphone and adjust volume to the appropriate level. Then click the Close button.

5.3 Desktop Icons

Desktop shortcut
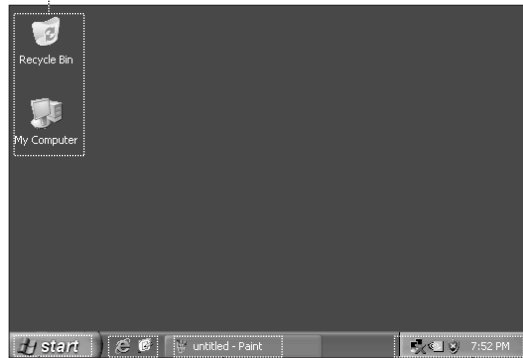
Start menu   Task bar   Notification area
          Quick launch bar

The entire screen displayed after entering the system is referred to as "desktop". Icons and menus displayed on the desktop vary by desktop settings.

Usage of Taskbar

At the bottom of the screen are taskbar and some shortcut icons. We will briefly introduce their usage.
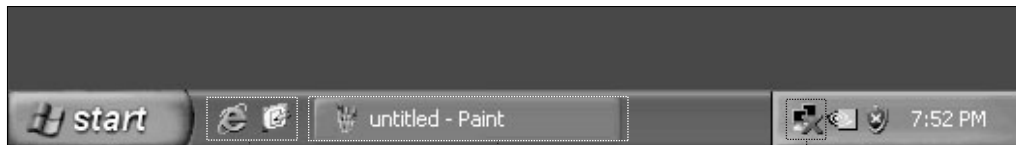
1) The quick launch icons 2) The icon of a minimized window   3) Notification area

1) Usually you will see Quick Launch icons such as MediaPlayer and IE browser.

2) Minimize the icon and right-click on the icon, the illustrated menu will appear. You may restore, maximize or close the window using this menu.

3) You will see small icons such as sound and network connection in the lower right corner of the screen. You may check their working status by double-clicking and opening them.

How to adjust arrangement of taskbar icons:
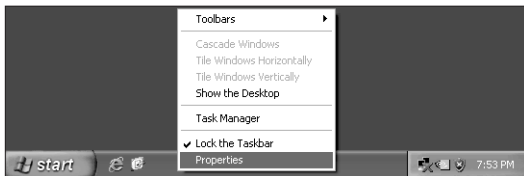
Right-click a blank place in the taskbar, then select Properties from the pop-up menu.
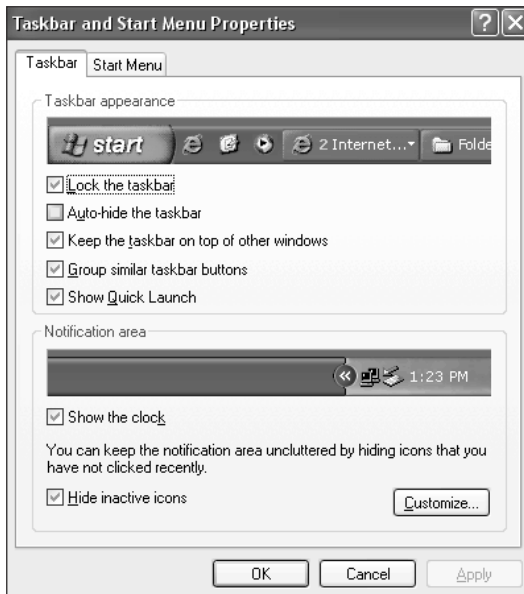
In the Properties dialog box, you may select the option Customize for taskbar appearance.

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5.4 Software Problems

5.4.1 End Program

You may end a program from task manager if you cannot exit the running program normally.

You may invoke Task Manager window by pressing Ctrl, Alt and Delete at the same time. To end a program, select it in the Application tab, then click End Task button.

5.4.2 Install and Uninstall Program Appropriately

Install Program Appropriately

If possible, never stop the process illegally during installation (for example, cut off the power supply). This might lead to system program chaos, and even failure to enter the system normally.
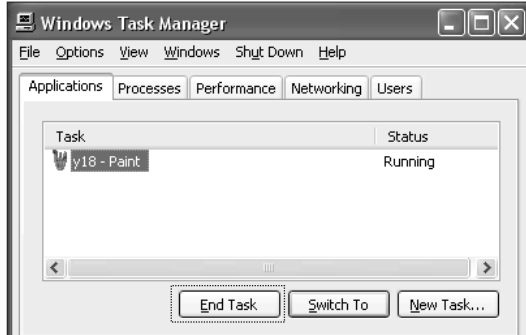
Uninstall Program Appropriately

If you need to remove certain applications, never directly delete the files or folders. This is harmful to the system, and might lead to system crash. Follow the procedure below to uninstall program appropriately (backup all documents and system settings related with the program before removing the program):
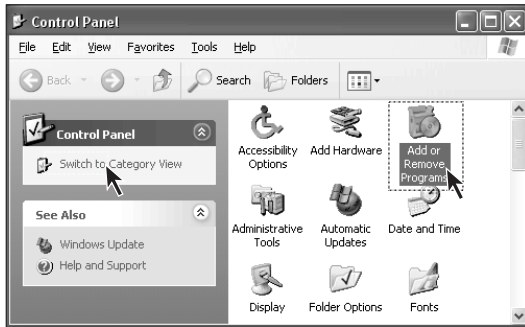

Step 1

If the program has its own uninstaller, run it directly to uninstall the program.
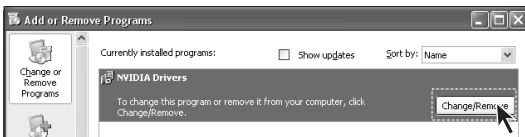
Step 2

If not, click Start in the lower left corner of the desktop, and then click Control Panel in the pop-up menu.

Step 3

Double-click the Add/Remove Programs button in the Control Panel.

Step 4

Locate the program in the Add/Remove Programs dialog box, and then click the Remove button to the right.

Select Yes or Next according to the instructions to uninstall the program. Until the uninstallation completes.

5.5 Optical Drives and Hard Disks

1. Optical Drive Unable to Read CD/DVD

Check whether there is the icon of optical drives in the resource manager of the OS. If not, restart your computer. And if the problem exists continuously, contact Lenovo Service Otherwise, proceed with the following steps.

• Check whether the CD/DVD is placed appropriately. If not, replace the CD/DVD.
• Check whether the CD/DVD inserted can be read by the optical drive, for example, the DVD is inserted into the common CD-ROM drive. If the CD/DVD can not be read, replace it with a CD/DVD shipped with the computer to check whether it can be read by the computer.
• Check the quality of the CD/DVD inserted. If not, replace it with a working CD/DVD shipped with the computer to check whether it can be read by the computer.

2. The capacity of the hard disk displayed in the system is less than the nominal capacity

For equipped with One-Key Recovery feature, the system recovery feature needs to occupy some hard disk space which is invisible in either the operating system or partition utilities such as FDISK, thus the available hard disk space is less than the actual capacity.

The nominal capacity of the hard disk uses the decimal system of 1000 bytes, while the actual capacity uses the binary system of 1024 bytes (for example, the nominal capacity 1G = 1000M, while the actual capacity 1G = 1024M); the capacity of the hard disk shown in Windows can be calculated according to the calculation method in the following example:

The nominal capacity of the hard disk is 40G, while its actual capacity should be: 40 x 1000 x 1000 x1000/ (1024 x 1024 x 1024) = 37G.

If the hidden partition of 3G - 3 x 1000 x 1000 x 1000/ (1024 x 1024 x1024) = 2.79G is subtracted, the capacity of the hard disk shown in the system can be obtained. The capacity of the hard disk calculated

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with above method may be slightly different from the actual capacity for such reason as rounding.

5.6 Special Description of Windows

1. Keep the serial number of the software shipped with your computer in a safe place

The serial number of the software shipped with the computer is provided separately by the manufacturer; keep it in a safe place. We will not be responsible for providing the serial number if it is missed.

2. The drivers for this model only support WINDOWS XP SP2 system.

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