USER MANUAL

CONTENTS

ABOUT FIXED DISK GUARDER/SAFER	3
Functions	3
Features	3
Software Versions	4
Hardware Versions	5
CHAPTER 1 QUICK START GUIDE	6
Before You Begin	6
Installation Steps	6
1. Welcome	6
2. Options	7
3. Guard Partitions	9
Quick Test	
CHAPTER 2 BASIC OPERATION GUIDE	11
Default Password and Hot Keys	11
Saving Fixed Disk Data	11
Recovering Fixed Disk Data	13
Entering the Main Menu	13
Setting Options	14
1. Guarding Fixed Disk	15
2. Recovery Schedule	15
3. Checking Password Recovery	15
4. OS Driver	15
5. Guarding CMOS	16
6. Changing Password	16

7. Anti-Virus Option	17
8. Boot Logo	17
9. Booting OS from Fixed Disk Only	18
10. Boot Wait	18
Re-installing Guarder	18
Uninstalling Guarder	18
Exiting from the Main Menu	19
Checking Password	19
CHAPTER 3 ADVANCED GUIDE	22
Boot Mode	22
Guarding CMOS Intelligently	23
How to Guard CMOS Intelligently	24
Unique Serial Number and Serial-Number Password	25
Anti-Evil-Attack	25
Setting Multi-OS Booting by System Commander	26
How to Skip Possible Virus Warning	26
Setting Multi-Bootable-Partition Booting by BootMagic	27
CHAPTER 4 TROUBLESHOOTING	28
I forgot the password	28
The message "DISK BOOT FAILURE, INSERT" appears	28
As if no Guarder card is plugged in	29
Repeatedly Rebooting	31
System breaks down once Guarder is plugged in before OS startup	31
The ROM address of Guarder conflicts with others	32
Displaying blue screen and Windows breaks down	32

About Fixed Disk Guarder/Safer

Functions

- PNP design. Press key Enter three times to finish default installation in five seconds without re-fdisk.
- Once fixed disk data is destroyed by any mistake, virus and/or hacker, only press key F9 one time to recover it in half a second.
- ♦ Support IDE and SCSI fixed disk controller.
- Support PIO, DMA33, DMA66, Ultra DMA66, ATA-100 and Ultra ATA-100 IDE interface.
- Support FAT16/16E, FAT32/32E, NTFS/HPFS partitions and file systems.
- ♦ Support 256GB fixed disk.
- ♦ Guard whole fixed disk or selected partitions.
- Support multi-OS booting by System Commander and multi-bootable-partition booting by BootMagic.
- Support not only DOS, Windows 3x/95/98/ME, but also Windows NT/2000/XP server better.
- ♦ Guard CMOS intelligently.

Features

- Three boot modes make Guarder compatible with all sorts of mainboards and BIOS.
- When first set up, saved, or recovered, Guarder uses only 5KB of fixed disk;
 when running , it uses 1.33MB of fixed disk at most.
- Virtual Fixed Disk Drive (VFDD) is one created and managed by Guarder in guarded partitions for new data saving. Theoretically Guarder supports a VFDD

of 1207GB, practically it supports a 12GB one, so it better supports Windows NT/2000/XP server and ensures that the Defrag routine can run and large data can be saved when any partition is guarded.

- The magic Save function is best suitable for such application environment about government, business, institute, home, finance, securities, accounting and the military. When any partition is guarded, all writing on it will be recorded as new data and saved on virtual fixed disk drive (VFDD). Once we use recovery or uninstallation function, VFDD and all new data will be cleaned. Guarder provides Save function to write data on VFDD onto physical fixed disk drive.
- Anti-Evil-Attack function is best suitable for net cafes and the computer groups of schools and colleges. When the attacker deletes all installation information on the guarded partitions, and reboots the computer, the Guarder will enter a Security Check routine. OS can only be booted when the manager enters the correct serial-number password, or the computer will be automatically reset to prevent the attacker from destroying fixed disk data further.
- Automatic-Uninstallation function is best suitable for net cafes and the computer groups of schools and colleges. If the Guarder card is pulled out without uninstallation, Guarder's Security Check routine will automatically uninstall itself after booting up Windows.
- By providing the two valuable functions of Anti-Evil-Attack and Automatic-Uninstallation, and shielding the booting interface, Guarder safeguards itself and fixed disk better.
- A careful design of triple pressing on key Enter to install Guarder intelligently, a proper arrangement of four hot keys, and F1 for help make Guarder better operated.

Software Versions

♦ System-safety version with no Save function.

♦ Data-safety version with Save function.

Hardware Versions

PCB types	Notes		
ISA	Lowest cost.		
ISA flash	Economical cost. The Guarder software is saved in Flash memory IC, so it can be updated without opening the computer.		
PCI 2	Adopts a patent design and is compatible with all sorts of mainboards and BIOS. But with certain BIOS, the Guarder software can be booted only with proper CMOS configuration.		
PCI 4	Adopts two patent designs. With most popular mainboards, booting the Guarder has nothing to do with CMOS configuration. But is has something to do with BIOS. If BIOS is incompatible with PCI 4 card, please replace it by PCI 2 card.		
PCI NIC	10/100Mbps PCI Ethernet adapter integrated with the Guarder.		

Chapter 1 Quick Start Guide

Before You Begin

- Make sure that the system functions well. Though the Guarder can be installed when viruses exist, it is advised to install it without viruses.
- ♦ Make sure there is no static electricity.
- ♦ Make sure the ISA card and the PCI card are not plugged into the wrong slot.
- \diamond Do not plug the card in the wrong direction.

Installation Steps

1. Welcome

System Guarder 2001.0822
The original password is function. Press Enter 3 times to install Guarder.
After CMOS setup and before OS startup, can only press
F9 /Ctrl-R: Recover F12/Ctrl-S: Save F10/Ctrl-M: Menu F11/Ctrl-B: Boot mode F1: About
Install Windows NT/2000/XP driver first.
Install Exit

Plug the card and then boot the computer. If the above screen does not appear,

please refer to "As if no Guarder card is plugged in" section in the Troubleshooting chapter.

- ♦ Click Exit or press key Esc to quit installation and continue starting OS.
- ♦ Click key Enter or Space Bar three times to finish default installation.
- Remember the default password of the Guarder is **function**. The letters are in lower case.
- If the welcome screen prompts "Install Windows NT/2000/XP drivers first", please make sure you have booted up Windows NT/2000/XP as a system administrator, run Install.EXE in Guarder's Utilities Diskette to install the Windows drivers. Some versions of Guarder do not include this prompt. For computers with only DOS, Windows 3x/95/98/ME, do not care about this prompt, because the Guarder can automatically install the Windows drivers.

2. Options

Options			
[1] Guard fixed disk			
[2] Recover 1th boot Paup/PaDn			
[3] Check password every recovery			
[4] OS driver manually			
🔽 [5] Guard CMOS			
[6] Password function			
🔽 [7] Anti CIH (no 26 every month)			
[8] Boot logo none			
📕 [9] Boot from fixed disk			
[±] Waiting 1 secs			
Ok Cance l			

- ♦ Click Cancel or press key Esc to quit the process and continue starting OS.
- Please refer to "Setting Options" for detailed information about function setting

on this screen.

- After clicking Ok, the Guarder will scan all the partitions, get the size and free space of them, then go to the next step.
- The 2nd, 3rd, 7th items of the Data-safety Guarder are different from the above.
 They are shown as the follow screen.

Options				
	[1]	Guard fixed disk		
	[3]	Check password every recovery		
	[5]	Guard CMOS		
	[6] [7]	Password function Anti CIH (no 26 every month)		
	[8] [9]	Boot logo none Boot from fixed disk		
	[±]	Waiting <u>1 secs</u>		
		Ok Cance 1		

3. Guard Partitions

Select guard	l partitions	
Drive Sustem	SizeMB	FreeMB
G: ØB FAT32	4000	2427
H: 07 NTFS	3122	2373
D:0B FAT32	7044	5826
E:0B FAT32	10001	6759
F:0B FAT32	10001	3499
C: OC FAT32	4000	2565
0k	Canc	el

- ♦ Click Cancel or press key Esc to quit installation and continue starting OS.
- Your PC screen will display the partitions information of its fixed disk, and the Guarder will adjust the display format automatically according to the partitions.
- The fixed disk with the partitions on the above screen is one to test Guarder. It has three primary partitions and three extended partitions. Windows 98, ME, NT, 2000 and XP are installed in the primary partitions and their GHOST image files are saved in drive E. To get a fixed disk with the partitions on the above screen, please use PQmagic to set partitions first, and then install BootMagic for Multi-Bootable-Partition booting, let PC boot on every primary partition, install OS and applications, create their own GHOST partition image files and save them in drive E last.
- The Guarder uses patent algorithm. It has an excellent performance and default guard covers all partitions.
- After clicking OK, Guarder scans all the folders in all partitions in fixed disk, and sets protection for every Windows system. Now installation is finished.

Quick Test

- ♦ Create a folder at the root of drive C, and create another at Windows desktop.
- Reboot your computer, do nothing if a system-safety Guarder is used. If the folders disappear, it means that the Guarder functions well and has automatically finished recovery.
- Reboot your computer, press key F9 or Ctrl-R repeatedly if a data-safety Guarder is used, input the default password function on the following box and press key Enter to start OS. If the folders disappear, it means that the Guarder functions well and has finished recovery.



Chapter 2 Basic Operation Guide

Default Password and Hot Keys

The default password is **function**. The letters are in lower case.

Besides PgUp, PgDn, Left, Right, Space Bar, Enter and Esc, there are also four sets of hot keys:

F9 or **CtrI-R** : Recover fixed disk to the previous status when it was last set protection or saved.

F10 or Ctrl-M : Enter the main menu.

F11 or **Ctrl-B** : Change Boot Mode (not often used). Please refer to "Boot Mode" section in the Advanced Guide chapter.

F12 or CtrI-S : Write data on VFDD onto physical fixed disk drive. This advanced function is available only in the data-safety version of the Guarder. Note: Hot keys can only be used after CMOS configuration and before OS startup.

Saving Fixed Disk Data

All writing on the guarded partitions will be recorded as new data and saved on virtual fixed disk drive (VFDD). This function is to write data on VFDD onto physical fixed disk drive. There are two ways:

- Press Ctrl-S or F12 to save data. The Guarder demands your password before data saving.
- ♦ Enter the main menu, click "Save system". The following screens will appear.

System Guarder 2001.0822			
Save really?			
Yes No			

The system-safety Guarder does not include this function. The Guarder will prompt the following screen, and then you can only reset or shut down your computer.

Save system
No license

The data-safety Guarder with this function will display the following processing screen.

System Guarder 2001.0822			
Saving system			
00.			
- 397.			

Notes:

- Between 0% and 1%, the Guarder is doing a sorting of up to 150,000 arrays in 80386 PVAM. If you feel impatient, please wait a minute.
- The Guarder uses patent algorithm. It can make changes to data of up to 12GB in guarded partitions. The algorithm requires one reading and one writing of the revised data, i.e. the data read and written onto the fixed disk is twice the size of the revised data. Thus with more data, it takes a longer time to save.

Recovering Fixed Disk Data

Clear the VFDD and recover fixed disk (only guarded partitions, i.e. guarded fixed disk drive) to the previous status when it was last set protection or saved **in half a second**.

There are three ways to recover fixed disk:

- ♦ Automatic recovery when booting.
- ♦ Press Ctrl-R or F9, and enter the password.
- Enter the main menu, choose "Recover system", and the following screen will appear.

System Guarder 2001.0822	
Recover really?	
Yes No	

Entering the Main Menu

Press Ctrl-M or F10, enter the password, and then you will enter the main menu.



Setting Options

There are two ways to set the Guarder's options: one is to follow the second step in installation, the other to click Options in the main menu.

Options				
	[1]	Guard fixe	d disk	
	[2]	Recover	1th boot	PgUp∕PgDn
	[3]	Check pass	word every	recovery
	[4]	OS driver	manually	
	[5]	Guard CMOS		
	[6]	Password	function	
	[7]	Anti CIH (no 26 ever	y month)
	[8]	Boot logo	none	
	[9]	Boot from	fixed disk	
	[±]	Waiting	1 secs	
		-		
			_	
		Ok		Cancel
			·	

1. Guarding Fixed Disk

If this function is disabled, Guarder works as if the card is not plugged in, but every time before starting OS, it will show the message "No guard".

If you wish to disable the Guarder without removing it, please disable this function.

2. Recovery Schedule

There are five choices:

- "Nth boot" means an automatic recovery every Nth time the system boots. If N=1, it will recover the fixed disk every time the system boots. Press PgUp or PgDn to set N.
- To manually recover the fixed disk, press Ctrl-R or F9, or enter the main menu and choose "Recover system".
- Or you can choose automatic recovery every 12 hours, every 24 hours (every day) or every week.

3. Checking Password Recovery

In case you carelessly pressed Ctrl-R or F9 to start recovery, enable this option to check the password before recovery.

4. OS Driver

- ♦ auto: the Guarder always installs its internal OS driver every installation.
- manually: to update OS driver, first the Guarder examines OS driver. If none, or a lower version of driver has been installed, the Guarder will automatically install its internal one to replace it; or it will use the installed OS driver.

5. Guarding CMOS

To recover any changes made to CMOS, boot the computer somewhere between CMOS configuration and OS startup.

If the computer reboots repeatedly after guarding CMOS, please press Ctrl-M or F10 repeatedly before OS startup, and then enter the password. Then the Guarder will provide three choices as follows:



- ♦ Click No to recover CMOS and reboot the computer.
- Click Yes to backup CMOS, i.e. to save the new CMOS, then enter the main menu.
- Click Cancel or press key Esc to check CMOS. The computer will reboot three times, and the Guarder will check CMOS automatically. For further information, please refer to "Guarding CMOS Intelligently" section in the Advanced Guide chapter.

6. Changing Password

If the password is not default **function**, the menu will display "*******" instead of "**function**". To change the password, please enter your new password twice in the dialogue box below.

Change password
New password
-

If the two passwords you enter are not consistent, or you pressed key Esc, the following screen will appear to indicate that the password is not changed.

System	Guarder	2001.0822
Passi	Jord not	changed
	Ok	
L. L.		

If the password has been successfully changed, the following screen will appear.

System Guarder 2001.0822
Remember new password
-
Uk

7. Anti-Virus Option

To guard against CIH virus, there will be two 27th but no 26th every month. For such application environment about government, finance, securities, accounting and the military, please don't enable Anti-Virus Option.

8. Boot Logo

Choose booting interface, e.g. to display a picture.

9. Booting OS from Fixed Disk Only

Enable or disable booting OS from fixed disk only.

10. Boot Wait

Boot Wait can vary from 1 to 15 seconds as you choose.

Re-installing Guarder

Reselect the partitions to be guarded. Please refer to the third step of the installation process.

Note: the Guarder automatically recovers fixed disk data before re-installation. If you have made very important new data on the guarded partitions, please do Save function before re-installing.

Uninstalling Guarder

After clicking Uninstall, the following screen will appear to check if you really wish to uninstall Guarder.

System Guarder 2001.0822	1
Uninstall really?	
Yes No	
ii	

If you click Yes, the Guarder will automatically delete all the installation information and VFDD. Then the following screen appears.

System	Guarder 2001.0822
	Pouce off
	rower ori
[Ok

Click Ok to shut down your computer. If it does not have an ATX power supply, the Guarder will lock the computer, and you will have to shut it down manually or reset. If the Guarder is uninstalled but the Guarder card is still plugged in, the Guarder will display its Welcome Interface every time the computer boots.

Exiting from the Main Menu

Click Yes on the following screen to exit from the main menu. When you exit, the Guarder will automatically finish its task according to the settings and the guarded partitions chosen.



Checking Password

Password check is used:

♦ When you press Ctrl-R or F9 to recover fixed disk;



♦ When you press Ctrl-M or F10 to enter the main menu;

Check password
Main menu
•

♦ When you press Ctrl-B or F11 to change boot mode;

Check password
Boot mode

♦ When you press Ctrl-S or F12 to save VFDD;



 Or when the Guarder detects an abnormal use and starts its security check routine. Please refer to "Anti-Evil-Attack" section in the Advanced Guide chapter.



You can only enter the password three times at most. If you press key Esc to cancel, the Guarder will continue running without giving any notice. If the password is wrong, after three times, the sign "Password Invalid" will appear. Click Ok, then it will continue running with no further notice.

System Guarder 2001.0822
Password invalid
Ok

If you press key F1 when entering the password, Guarder will display its serial number.

20010822.8899AABB.CCDDEEFF System Guarder 2001.0822

By the serial number, you can get the serial number password. The serial number password is an all-purpose password corresponding with your unique serial number, and it can be only got from the distributors.

Chapter 3 Advanced Guide

Boot Mode

Boot mode is a technical concept. For BIOS, after POST finishes, it boots the Guarder, and then boots the OS in a certain order and ways. For the Guarder, it takes different strategies (i.e. different boot modes) to respond to BIOS requests.

Change boot mode when:

- The computer can't boot OS after the card is plugged in;
- \diamond The card is plugged in, but there is no sign that the card has been plugged in.

After BIOS finishes its POST and the CMOS configuration screen disappears, press Ctrl-B or F11 repeatedly to enter the Boot Mode menu.

Bo	oot	: Mode	
1 2 3	at attents	D800 D000 xx00	Standard Enhanced Original
No	jω=	= 1. M	lew:

- Standard Mode: compatible with almost all sorts of mainboards and BIOS. For computers requiring Enhanced Mode, choosing Standard will cause the second problem as described above.
- Enhanced Mode: A few mainboards with AMI BIOS will require this mode. For computers requiring Standard Mode, choosing Enhanced mode will cause repeated rebooting and system breakdown.
- **Original** Mode: rarely used. Only certain Dell computers require this mode.

Choose the boot mode compatible with your computer, then press any key to reboot it.



- For ISA card, you can only set boot mode by changing the jumpers of card. The Guarder will give no sign.
- For PCI card, you can only change boot mode after the Guarder checks the password first.

Check password
Boot mode
-

Note: For Intel D845GEBV2/L mainboard using AMI BIOS Version RG84510A.86A.0017.P09 (released on Sept. 9th 2002 by AMI), only Enhanced Mode is available, and only a PCI 2 card is allowed. By updating the BIOS with 0022.P12, you will have no trouble.

Guarding CMOS Intelligently

CMOS will be checked:

- ♦ When the computer repeatedly reboots after guarding CMOS;
- When the computer repeatedly reboots after new hardware is installed, e.g. a new fixed disk is added, or re-install some hardware, e.g. connect the IDE fixed disk on another connector.
- ♦ When you wish to revise CMOS after guarding CMOS.

The steps to check CMOS are as follows:

- 1. In the third case above, please revise CMOS first to make it different from the one the Guarder has saved. In the other two cases, please do the next step directly.
- 2. Press Ctrl-M or F10 repeatedly after CMOS configuration and before OS startup. Then enter the right password, the following menu will appear.



- 3. Click Cancel or press key Esc to check CMOS. The computer will reboot three times for the Guarder to analyze CMOS.
- 4. In the third case above, you can revise CMOS every time the computer reboots, so CMOS will be different from the one before last reboot. Later, only the changes made now or at the first step will be allowed when CMOS is guarded.

How to Guard CMOS Intelligently

The third reason for CMOS analysis is: you can still revise certain parts of CMOS after guarding CMOS. E.g. if you guard CMOS after you choose to boot from fixed disk first, then unless it is disabled, the computer can not boot from floppy drive. Even if you change it to boot from floppy drive, the Guarder will recover CMOS to make the computer boot from fixed disk. In this case, if you wish to boot from floppy drive without canceling CMOS guard, please follow these steps:

- 1. Revise CMOS;
- 2. Press Ctrl-M or F10, and check the password. The Guarder will not enter the main menu (for you have changed CMOS), but display the dialogue box above. Click "Cancel" to check CMOS.
- 3. The Guarder starts analyzing CMOS, and the computer will be rebooted three

times. We can revise CMOS in any of the rebootings. The guarder will compare these CMOS, and mark the changed units or bytes as permitted changes.

To partly change CMOS when it is guarded, please use the Guarder to analyze it, and mark the changes allowed, so that the computer will not reboot when you change these parts later.

Unique Serial Number and Serial-Number Password

In the dialogue boxes of Installation screen, configuration screen, main menu and password check, press F1, and you will see

20010822.8899AABB.CCDDEEFF System Guarder 2001.0822

- ♦ "20010822" is the manufacture date of your Guarder card.
- ♦ "8899AABB.CCDDEEFF" is the serial number. It is unique.
- "System Guarder" is the product name. Some versions will also include copyright information.
- ♦ "2001.0822" is the release date of the Guarder's software.

Serial-number password is an all-purpose password corresponding with the unique serial number. It is used in case you forget the password, or Guarder carries security check to prevent evil-attack. You can only get the password from the distributors.

Anti-Evil-Attack

When the attacker deletes all installation information on the guarded partitions, and reboots the computer, the Guarder will enter a Security Check routine. The OS can only be booted when the correct serial-number password is entered, or it will automatically reset to prevent the attacker from destroying fixed disk data further. For applications with lower security requirements, you can use the default password instead. But for Guarders with the highest security level, the serial-number password

is required.



When the above window appears, press F1 to get the serial number. With it, you can get the serial-number password from the distributors.

Setting Multi-OS Booting by System Commander

System Commander is a good software for multi-OS booting. Install first OS, applications and System Commander, and then the Guarder.

How to Skip Possible Virus Warning

The first time System Commander starts after Guarder installation, the Possible Virus Warning window will appear as follows.

One or more key items have a could be caused by new hard complete details.	changed in value since 0 ware or a virus infection.	he last boot. This Select Help for
Key Rem	Prior value	Current value
Herd disk interrupt pointer	F000:AE7C	9800.0026
Hard disk interrupt contents	FB 9C 80 Fa 01 77	55 8B EC 2E 88 16
		275.00 P

Press U to update. For system-safety Guarder, this window will appear every time the fixed disk data is recovered. For data-safety Guarder, reboot the computer and save fixed disk data. Then as long as you do not uninstall the Guarder, this window will not appear whenever you recover fixed disk data.

Setting Multi-Bootable-Partition Booting by BootMagic

BootMagic is a software packed with PQmagic. It is specially used in installing Multi Bootable Partitions.

Please set OS partitions in PQmagic first, and then install BootMagic, OS, applications and the Guarder in this order.

Chapter 4 Troubleshooting

Legends





Ways to solve the problems.



Further notes.



Caution!

I forgot the password



Try default password first. If that won't do, please get the serial-number password from your distributor.

The message "DISK BOOT FAILURE, INSERT ... " appears



Once Guarder card is plugged in, the message "DISK BOOT FAILURE, INSERT SYSTEM DISK AND PRESS ENTER" appears every time the computer boots.

Boot mode does not match BIOS.

Delease refer to Boot Mode section in the Advanced Guide chapter.

As if no Guarder card is plugged in

- 3
- 1. I pressed Ctrl-B or F11 when booting, but the computer does not respond and starts OS as usual.
- 2. I pressed Ctrl-B or F11 and entered the Boot Mode menu, but the computer does not respond to pressing Ctrl-M or F10, the installation screen does not appear, and the computer starts OS as usual.
- When the card was plugged in for the first time, I pressed Ctrl-B or F11 and entered Boot Mode menu, pressed Ctrl-M or F10 and checked password, but the installation screen would not appear if I did not press the hot keys.

For the first case, the possible causes may be

- \diamond The card is not properly plugged.
- The ROM address of ISA card conflicts with others, e.g. SCSI cards, and remote bootable network adapters.
- The power supply has poor loading capacity; the ISA slot does not meet the requirements.
- If the Guarder is a PCI 2 card or an All-in-One card with Ethernet adapter, CMOS is not properly configured.
- PCI 4 Guarder can not be used with certain desktop boards and BIOS.

For the second case, the possible cause may be

The boot mode does not match BIOS. Please refer to Boot Mode section in the Advanced Guide chapter.

For the third case, the possible cause may be

 You installed Guarder once, and pulled it out from your computer without uninstallation. Note: the Guarder we sell now can automatically uninstall itself when Windows is booted after the card

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is pulled out without uninstallation.

- Plug the card again, or change a slot, or clean the slot/the card.
- Adjust the ROM address of other ISA cards if possible, otherwise change the jumpers J1 and J2 of Guarder ISA card. Note: This will also change the boot mode of ISA Guarder. Please refer to Boot Mode section in the Advanced Guide chapter.
- Retry it with another ISA card, ISA flash card, PCI card or All-in-One card. If the power supply does not work, contact your computer distributor or the manufacturer, and replace either the power supply or the computer itself.
- Only a PCI 2 card, or an All-in-One card which integrates Guarder and Ethernet adapter, will be affected by CMOS. This perhaps occurs when an AMI BIOS mainboard is used. Set the CMOS parameter BIOS FEATURES SETUP as follows: Set First boot device to LAN

Or set Boot from LAN first to Enable. Certain mainboards or BIOS may also require Set PnP OS installed to Yes.

- PCI 4 card adopts a patent technique in hardware design, so its functions should not be affected by CMOS. But with the Intel D845GEBV2/L mainboard with AMI BIOS Version
 RG84510A.86A.0017.P09 (released by AMI, Sept. 9th 2002), PCI 4
 Guarder can not work. Solution: Replace it with a PCI 2 card, and choose the Enhanced Mode, or update BIOS.
 - • The automatic uninstallation function is available in the

Guarders we sell now. The following only goes for versions before 2002.

You installed Guarder once, and pulled it out from your computer without uninstallation.

To verify this, please press Ctrl-M or F10 repeatedly after CMOS configuration and before OS startup. If Check Password window appears, it means the Guarder has been installed once. **Solution**: input the password, enter the main menu, and choose "Uninstall", then try to reinstall it.



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Improper CMOS configuration or Boot Mode not matching BIOS perhaps occurs with mainboards using AMI BIOS.

There is little possibility that the above causes concur combinedly.

Repeatedly Rebooting

- You must have set CMOS Guard.
- The BIOS of certain mainboards may put a dynamic variable in CMOS. It is changing every time the computer boots.
- New hardware must have been installed (e.g. a fixed disk is added), or re-install some hardware, e.g. connect the IDE fixed disk on another connector, and BIOS automatically changes CMOS (e.g. the IDE fixed disk parameter has been set as AUTO).



Please refer to Guarding CMOS Intelligently section in the Advanced Guide chapter.

Please refer to Boot Mode section in the Advanced Guide chapter.

System breaks down once Guarder is plugged in before OS startup

The boot mode does not match BIOS.



- Boot mode does not match BIOS. Please refer to Boot Mode section in the Advanced Guide chapter.
- Retry it after disabling the virus scan function in BIOS.
- Please refer to "Displaying blue screen and Windows breaks down" in this chapter.

The ROM address of Guarder conflicts with others



The Guarder can only run before or after other BOOT ROM programs (e.g. SCSI BOOT ROM, Remote bootable Ethernet adapter ROM), and the Guarder does not function normally.



- Please change ROM address of ISA Guarder ROM, e.g. from D000 to D800. Make sure that no new collisions occur.
- For PCI Guarders, please plug it in another slot at the other side of the other PCI card with a BIOS ROM.

Displaying blue screen and Windows breaks down

- It has been infected with viruses.
- \odot

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- The free space in fixed disks is limited. There is no cache for the Guarder.
- Check if Anti-Virus software or System Performance Administration software has been installed.
- ♦ Recover the fixed disk data, or set it to Automatic Recovery.
- Uninstall the Guarder, Anti-Virus software and System Performance
 Administration software, and then install the Guarder.
 - Uninstall the Guarder, do defrag in fixed disks. Reinstall it after the system is Ok.

Guarder software of all versions uses patent algorithm to ensure a better guard capacity. It allows revisions of over 12GB data in the guarded partitions, and default guard covers all partitions. Guarder will guarantee a longtime stable working of Windows NT/2000/XP Professional or Server without automatic recovery.