V3 Pro 2000 Deluxe

for Windows 9x / NT (Workstation) / 2000 (Professional)

Version 4.02 SP2

User's Guide

안철수컴퓨터바이러스연구소
DR.AHN'S ANTI-VIRUS LABORATORIES, INC.

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Phone: 82-2-2186-6000 (Main)
82-2-558-7400 (Customer Support Center)
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82-2-558-7567 (only for Customer Support Center)

Preface

Notes

This documentation is designed to provide for users who have purchased V3Pro 2000 Deluxe.   Please read over this documentation to the end.   You can equip yourself to coping with viruses as well as learning how to use V3Pro 2000 Deluxe for Windows 9x / NT (Workstation) / 2000 (Professional), which is abbreviated to V3Pro 2000 Deluxe.

Organization of this documentation

This documentation consists of five chapters, including preface and appendix. Chapter 1 describes what you should know before using the customer support service and using the program.   Chapter 2 explains the features and the installation of V3Pro 2000 Deluxe.   Chapter 3 shows the quick usage of the program.   Chapter 4 looks into how to use the program in detail.   Chapter 5 provides the descriptions about some useful tools. In addition, this documentation provides Appendix, including some guidelines, glossary, and DOS tools.

Conventions

Symbol or Mark	Description
NT	Explains things related to Windows NT Workstation
Note	Provides explanations, hints, exceptions, tips, etc.
Warning	Shows you a warning, which results in unexpected situations, damages, etc.
Capital Letter	Represents directory (or folder), path, filename, etc.
Bold	Represents menu, dialog box, option, etc..
\<Key1\>+\<Key2\>	Press and hold \<Key1\> and \<Key2\> at the same time.
\<Key1\>→\<Key2\>	Press \<Key1\> and then press \<Key2\>.
Bold1 → Bold2	Click **Bold1** and then click **Bold2**.

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Chapter 1

Before You Begin

- *Customer Registration and Support Service*
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  - *Cautions in Using V3Pro 2000 Deluxe*

V3Pro 2000 *Deluxe*

Customer Registration and Support Service

Dr. Ahn's Anti-Virus Laboratories, Inc. provides the registered user with a variety of services, including from technical and customer support to consulting service for the V3 product series.

Customer registration is necessary

It is powerfully recommended that any user who has purchased V3Pro 2000 Deluxe should be registered as a customer. Unlike other typical applications, V3 product series of Dr. Ahn's Anti-Virus Laboratories, Inc. requires continuous engine update every time a new virus is detected. So the engine is updated at least once every week and also additional services are always provided for the registered user. If your registration is not identified, however, you cannot be provided services from us even though you have purchased one of the V3 product series. After purchasing any V3 product, never forget to complete your registration as a customer.

Online registration over Internet is more convenient

Since it takes much time for you to send a registration card enclosed in the product package and for us to receive your registration card by mail, you will not have been provided the necessary services for the registered user for the period. You can get any services quickly only if you were an Internet user and completed the online registration at our web site.

You can easily complete the registration in the **Customer Forum** - **Online Registration** menu at our web site (www.ahnlab.com). In case you cannot be connected to Internet, please fill out the registration card, enclosed in the product package, your detailed information, including name, zip code, address, phone, etc. and send it to us by mail or fax at 82-2-558-7567.

One-year warranty is guaranteed after registration

The warranty for the V3 product series is one year after registration. All services, including weekly update of the latest engine, will be suspended if the one-year warranty has been expired after registration.

Valuable services provided for the registered user

For the registered user, the following services are provided under the warranty.

- Weekly update service for the latest engine
- Hard disk recovery service for free when it is damaged with a new virus.
- Free upgrade service for the same product within the registration warranty
- Mileage service for the registration extension

- Price discount benefit for the membership extension
- Related news and virus warning services by e-mail
- Consulting service by e-mail, Internet, mail, and phone
- Virus Calendar provided
- Free participation service in security related seminars, training programs, and other events

How to extend the warranty

Above all things, quick update is one of the most important things in any vaccine program in its nature.   So the V3 product series have one-week cycle of the quick update and continuous investments on have been made on research and development.   This is why the warranty should limited to one year, unlike other typical applications.

Because customer services will not be provided as a year elapses after registration, your computer is likely to be exposed to the risk of being infected with a new virus.   Therefore, the user who has his or her warranty expired should extend the registration to protect his or her own system from being infected with virus.

We send an e-mail message about the registration renewal to the user whose warranty is close to expiration.   For the user who hasn't yet received any message or wants to know the detailed information about the registration procedure, please refer to the relevant menu at the web site of Dr. Ahn's Anti-Virus Laboratories, Inc.

> *Note:*   *Registration extension is the service applicable to the registered member who has purchased one of the V3 products; that is, this service is "Discount Benefit for Registered Customer" service, by 50% lower than a new member, available only if the member wants to get the engine update service for one year again.*

How to update the engine for V3Pro 2000 Deluxe

We give you the right to download the latest updated engine of V3Pro 2000 Deluxe from the customer forum.

We also regularly send you a notice message by e-mail at least once every week. After you receive the message, you can download the latest updated engine from the Customer Forum at our web site (http://www.ahnlab.com), if you are Internet user.   When you are connected to Internet, you can immediately download the update files by using the **Smart Update** function included in the V3Pro 2000 Deluxe program.

Questions and Technical Support

If you have any questions while you are using V3Pro 2000 Deluxe, please don't hesitate to ask questions by e-mail, Internet home page, phone, fax, or mail.

Internet

Ahn's Lab Web Site: www.ahnlab.com

E-mail address of the Virus Reporting Center representative

E-mail: customer@ahnlab.co.kr

Mail, Phone, or Fax

Customer Support Representative
Dr. Ahn's Anti-Virus Laboratories, Inc.
10th Fl., SamHwa Bldg.,
144-17, Samsung-dong, Kangnam-gu,
Seoul, 135-745, Republic of Korea

Phone : 82-2-558-7400 (Customer Support Center)
Fax : 82-2-558-7567

When A New Virus Is Detected

When a new virus is suspiciously detected, please contact Ahn's Lab

When your system is infected with, or suspiciously infected with, any new computer virus, or you can detect any virus by using another vaccine program other than V3 product series, please send the infected file or files to Virus Reporting Center or Customer Support Center of Dr. Ahn's Anti-Virus Laboratories, Inc..   We quickly analyze the received file or files, check if they are infected, and provide the latest vaccine update to minimize your probable damages when a new virus is definitely detected.

How to detect file virus (including macro virus) and boot virus is as follows:

- **How to detect file (macro) virus** - As file (macro) virus infects executable files, please send us the infected, or suspiciously infected, file or files (in case of macro virus, files related to Microsoft Office).
- **How to detect file (macro) virus** - You can easily detect boot virus if you use the Backup Boot Record function provided in V3Pro 2000 Deluxe, or use `V3BACKUP.EXE`, a program that detects boot virus, included in the V3+ Neo for DOS (for example, `C:\V3BACKUP <drive name>`).

If you use `V3BACKUP.EXE`, a program for DOS, you should run the program after you reboot the system with a clean bootable DOS diskette.   Please send to the representative of Virus Reporting Center the files, `MBS.V3` and `DBS.V3` (for floppy diskette, `FBS.V3`), generated after running the program.

Internet

Ahn's Lab Web Site: www.ahnlab.com

E-mail address of the Virus Reporting Center representative

Internet: webmaster@ahnlab.co.kr

Mail, Phone, or Fax

Virus Reporting Center Representative
Dr. Ahn's Anti-Virus Laboratories, Inc.
10th Fl., SamHwa Bldg.,
144-17, Samsung-dong, Kangnam-gu,
Seoul, 135-745, Republic of Korea

Phone : 82-2-558-7400 (Virus Reporting Center)
Fax : 82-2-558-7567

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How to Complete Your Registration and Update

1. Be sure to complete your registration.

You can choose either 1 or 2 to complete your registration.

1. Registration by online

Access http:\\www.ahnlab.com and select "Online Registration"

2. Registration with registration card

Fill out the registration card enclosed in the product and send it to us by fax at 82-2-558-7567 or by mail.   .

2. Why is the customer required to complete the registration?

The reason is that a new virus is continuously detected.

You should update the vaccine in a short time.   Because the engine update file for V3Pro 2000 Deluxe is available for the registered user only. If you necessarily complete the registration, you can update the vaccine.   The latest version only can continue to diagnose and clean the newly detected virus.

3. How to update

Only registered user can download the engine update file in the following ways.

Choose more convenient one of three ways.

1. Download the update file from the Ahn's Lab web site

a. Access http:\\www.ahnlab.com and select the Member menu of Customer Forum.

b. Type username and password .

c. Select the integrated engine to download.

d. Double-click to run the downloaded file in Windows Explorer.

e. Run V3Pro 2000 Deluxe to check if the engine date is changed to the latest.

2. How to use the Smart Update utility

a. Run V3Pro 2000 Deluxe

b. Run the Smart Update utility and select the Start Smart Update button.

c. If you exit V3Pro 2000 Deluxe and then run it again, the update will be completed.

Note: You should run the Smart Update utility when you are connected to Internet..

Cautions in Using V3Pro 2000 Deluxe

Unable to scan any new virus without its information included

V3Pro 2000 Deluxe can scan and clean all computer viruses detected in Korea and many other harmful viruses detected in other countries.   For a new virus, however, it may not be detected until its information is included in V3Pro 2000 Deluxe (as it is applicable for other vaccine programs).   Dr. Ahn's Anti-Virus Laboratories, Inc. doesn't assume any responsibility for the possible damages by an unknown virus.   Therefore, in order to protect your system fully from being infected with any viruses, it is recommended that you should backup (or copy) the important data, taking action with other protection methods rather than depending only on the vaccine program.

Incurable file may exist

If you clean a file infected with any computer virus with V3Pro 2000 Deluxe, it can be restored to the previously clean one.   If a new morphologic virus, overwriting virus, double-infected virus, or infected macro file is running, it may not be properly cleaned.   If a macro file infected with several viruses is corrupted, a file is infected with any overwriting virus destroying files, or an infected macro file is running (or open), it also may be incurable.   Therefore, before cleaning it, it is recommended that you should backup the infected file, or clean it after you close the file.

Be sure to get the update service provided every week

V3 product series has the quickest update cycle (once every week) in comparison with any other vaccine programs that have been so far released in Korea or other countries.   This is intended to quickly cope with a new virus and to minimize the damage from computer viruses under the consideration that a number of new viruses have been ceaselessly emerging even for one week.   You can quickly and continuously cope with new emerging viruses only if you, as a registered user, must get the update service provided once every week by Ahn's Lab.

In addition, If any harmful virus is emerging, you can quickly cope with any urgent situations as we provide the emergency update services from time to time.

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Chapter 2

Features and Installation

V3Pro 2000 *Deluxe*

Features

V3Pro 2000 Deluxe, developed by Dr. Ahn's Anti-Virus Laboratories, Inc., is an Anti-Virus program that runs under Windows 9x / NT (Workstation) / 2000 (Professional).   V3Pro 2000 Deluxe provides the fastest and powerful Anti-Virus feature of the numerous products, in Korea and other countries.   It also monitors and detects if any files downloaded over Internet are infected and, if any, clean virus.   Because V3Pro 2000 Deluxe embeds the worldwide WARP engine, it has little possibility to make an error in diagnosis and boasts its excellent capability to recover the infected files at cleanup.

The features of V3Pro 2000 Deluxe are as follows:

Protection from virus streaming over Internet

Internet Monitoring integrated into System Monitoring provides an impeccable ability to monitor the infection of virus streaming over Internet and to clean virus when it is detected.

Virus-monitoring and auto-cleanup function embedded

With an intelligent Anti-Virus monitoring (protection) function implemented, V3Pro 2000 Deluxe protects virus from being activated in the level of operating system while you are working and automatically and immediately cleans the infected files when virus is detected.   System Monitoring is one of the important functions that hardly impacts the system performance while keeping an excellent power in preventing virus from attacking your system.

Powerful WARP Engine® embedded

You are free to use your system because V3Pro 2000 Deluxe with the excellent WARP Engine® embedded, developed by Dr. Ahn's Anti-Virus Laboratories, Inc., scans thoroughly the sector of Windows 9x / NT (Workstation) / 2000 (Professional).   In addition, it provides the fastest and the highest cleanup rate among other vaccine programs in Korea and other countries and boasts it the most reliable recovery performance in cleaning the infected files.

The WARP Engine®, developed by unique and proprietary technologies of Dr. Ahn's Anti-Virus Laboratories, Inc., is the core technology in vaccine software that combines the diagnosis and cleanup with the protection technologies, boasting the following advantages:

■   **Anti-Virus function with the quick response to virus** - V3Pro 2000 Deluxe provides the fault-free diagnosis and cleanup function for the viruses that have recently been detected in Korea, those that have been diffused in Korea and other countries, and even the harmful viruses that have recently been streamed (especially, CIH, Melissa, ExploreZip, Back Orifice, etc.).

**An authorized excellence, with a patent
and a KT Mark Certificate in Korea
The Origin and Meaning of the WARP Engine®**

"WARP" in WARP Engine®, named after a movie, "STAR TREK," is the name of the super light turbo engine equipped in the federal space shuttle.

According to the movie, it is known that the WARP drive system has a formidable power that it can travel faster than light and move from dimension to detention.   It was invented by Zefram Cochrane in 2061, a scientist who comes from Alpha Centauri (the closest planet to the solar system).

The Anti-Virus engine embedded in V3 product series of Dr. Ahn's Anti-Virus Laboratories, Inc. has its name, "WARP: World-class Accelerated Recovery Processor) in that it provides "the fastest and most rate of the cleanup (recovery) in the world.   Dr. Ahn's Anti-Virus Laboratories, Inc., has enhanced this kind of advantages of the WARP Engine® and provided a variety of vaccine solutions based on the proprietary technology that differentiates from other vaccine products.

■ **Excellent file recovery power in cleaning the infected files** - V3Pro 2000 Deluxe boasts its powerful file recovery performance in cleaning the virus-infected files and minimizes the damages leading the original files to be corrupted.

■ **Fastest speed in diagnosis/cleanup** - V3Pro 2000 Deluxe, embedded with a unique core algorithm (a technology that scan specific location – that is, a tracing algorithm that selects the sectors only possible to be infected to scan) of Dr. Ahn's Anti-Virus Laboratories, Inc., provides the fastest diagnosis/cleanup performance of the major Anti-Virus products.

■ **Diagnosis function for the undetected viruses** - V3Pro 2000 Deluxe copes with the stream of a new virus by providing the diagnosis function for hundred thousands of the international viruses that have not yet been detected in Korea.

Enervating new virus with quick update

V3 product series of Dr. Ahn's Anti-Virus laboratories, Inc., including V3Pro 2000 Deluxe, boast the shortest update cycle (at least once every week) of the vaccine products that have so far been releases in Korea and other countries. They also include the Smart Update® utility to solve the inconvenience that user should update the engine manually.   The Smart Update® utility allows you to download and use the latest updated engine files from the Internet update service host of Dr. Ahn's Anti-Virus Laboratories.

Reliable and safe cleanup option at virus detection

V3Pro 2000 Deluxe allows you to take safe protection actions depending on situations, providing an auto-cleanup function at virus infection after scanning.

That is, it provides you with a function to backup the original files to the separate backup folder for the possible corruption before the infected files are cleaned depending on the options specified.   If they are incurable, they should be deleted so that virus cannot be spread.   For the future reference, the incurable files should be copied to the backup folder before they are deleted.

In addition, it thoroughly prevents the boot virus from streaming to the hard disk when the floppy diskette is accessed or the Windows system shutdowns.

Supplementary functions for the efficient protection and management

With the Virus Calendar® and the virus database embedded, V3Pro 2000 Deluxe allows you to cope with a specific virus working on a specific date.

It also lets you to flexibly manage protection actions depending on situations by providing scanned logs, preferences, useful tools, and online registration over Internet.

Cautions in Using V3Pro 2000 Deluxe
under Microsoft Windows NT (Workstation) / 2000 (Professional)

1.   In this documentation, the section about the boot record is not available in Windows NT Workstation and 2000 Professional.
2.   In this documentaiton, the section about creating the SOS diskette is not available in Windows NT Workstation and 2000 Professional.

Enhanced Features over V3Pro 98 and V3Web

1. Faster Scan Speed

With the efficient scan process, you can feel faster speed in scanning.

2. More Reliable Internet Monitoring Integrated with V3Web

V3Pro 98 and V3Web are integrated into V3Pro 2000 Deluxe which thoroughly monitors the stream of virus over Internet with System Monitoring.

3. Enhanced Smart Update Utility

You can get the fast update service from the mutiple update servers.

4. Auto Scan at Floppy Diskettte Insertion for Flawless Anti-Virus Protection

If the system shutdowns with the boot-virus infected diskette inserted in the drive A and then it restarts. it first accesses the floppy disk. In this process, the boot virus infects the boot record in the hard disk. Though the floppy diskette is removed from the drive later, the damages of the hard disk infected with the boot virus are fatal and irrevokable.   For the prevention of this virus, V3Pro 2000 Deluxe provides a function to scan when the system accesses the floppy diskette and scan when the floppy diskette is inserted in the drive at Windows shutdown.

5. Multiple Scanning Methods with Quick Scan Bar

In the field of the Quck Scan bar, you can type the objects you want to scan.   So a flexible protection is possible with mutiple scanning methods.

6. Cleanup of Files Windows System Uses

V3Pro 2000 Deluxe allows you to clean the files that the Windows sytem uses. It forcedly closes the infected files and tries to clean them.   If they are forcedly closed, they are not automatically cleaned.   If they are normally closed, they are copied to the separate folder and then replaced with the cleaned ones at Windows restarts.

7. Enhanced Backup Management and Auto Transfer Features

This function allows you to backup the infected files in the separate folder and to cope with unexpected curruption of the important files.   When a new virus is detected, send the infected files to Ahn's Lab and get a service of the latest updated engine.

8. Activities of All Viruses Possibly Traced

Event Logs and Message Notes include information about running System/Internet Monitoring, starting Update, performing Virus Scan, messages from Ahn's Lab.   With the information, you can trace the acitivities of all viruses and manage your system more safely.

9. Neo Scan

Neo Scan allows you to shutdown the currently running Windows system and to scan all hard disks with V3+ Neo before Windows starts.   It guarantees the perfect protection of the files that the Windows system uses.

10. Web Link and Office Protector Added

Web Link and Install/Uninstall Office Protector functions are added. Office Protector is a plug-in used in Microsoft Office 2000 and Microsoft Internet Explorer 5.0.

11. Scan Internet port feature added

This is the function that scans ports used when Internet is connected, check if Back Door program is running, and displays a warning message when the virus uses a port.

12. Engine for cleaning registry added

Without any additional batch file execution, only V3 engine can clean the virus that changes randomly registry key values, like PrettyPark.

13. Scanning currently running program added

This is the function that always scans running applications in the current system before scanning files as the program itself, like Back Door, which in itself runs as a virus while it is running, is increasing.

14. Full support for Windows 2000

Enhanced system monitoring function fully supports Windows 2000 series.

Requirements and Components

Running environment

V3Pro 2000 Deluxe runs under Windows 9x / NT (Workstation) / 2000 (Professional). The minimum requirements of running V3Pro 2000 Deluxe are as follows:

■ Intel Pentium 133MHz microprocessor or higher IBM PC compatible
■ 64MB memory or more
■ VGA or higher-resolution graphic adapter and monitor
■ 10MB or more hard disk space
■ Windows 9x / NT (Workstation) / 2000 (Professional)
■ CD-ROM Drive (24x-speed or higher recommended)
■ Mouse, or compatible pointing device

Program folders

The program contains the following folders.

Folder Name	Description
UPDATE	Contains updated files
BACKUP	Is the folder in which the infected files are saved
TEMP	Is the folder that V3Pro 2000 Deluxe temporarily uses
TXT	Is the message sent by Ahn's Lab
SYSTEM	Contains the system files that V3Pro 2000 Deluxe uses
LOGWIN	Is the folder in which scanned logs are archived

What you get from the product package

The V3Pro 2000 Deluxe product package includes CD-ROM, User's Guide, registration card, and license certificate. The CD-ROM contains V3Pro 2000 Deluxe for Windows 9x / NT (Workstation) / 2000 (Professional) and V3+ Nro for DOS, which is designed to scan virus safely if the operating system is not reinstalled or rebooted.
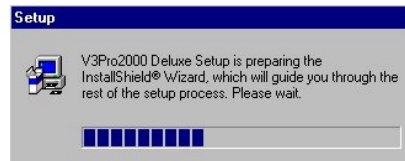
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Installing V3Pro 2000 Deluxe

From the Windows 9x / NT (Workstation) / 2000 (Professional) taskbar, click the **Start** button to select **Run**.   In the **Open** text box, type the CD-ROM drive name and the program name to be installed.   (In default, V3Pro 2000 Deluxe automatically runs the installation program.   If you don't want AUTORUN to run, hold <Shift> and insert CD-ROM into the drive.)
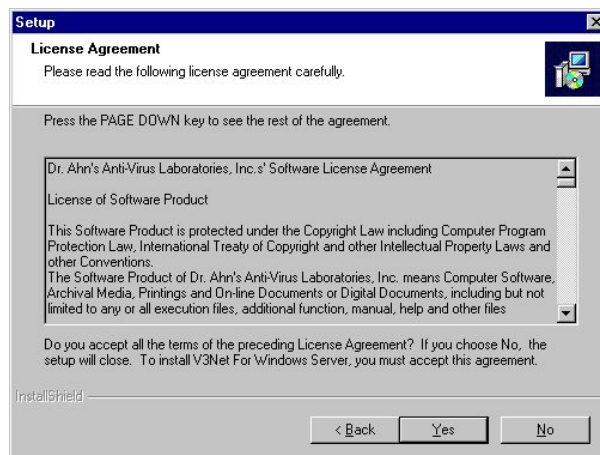

If you type "'D:\setup.exe' and then click the **OK** button, the installation program of V3Pro 2000 Deluxe will be displayed step by step.

Procedures of installing V3Pro 2000 Deluxe

1. License Agreement screen first appears.   Press the Page Down key or click the scroll bar to view the rest of the agreement.   If you select **Yes**, setup will continue to proceed the next step.

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When a previous version of V3Pro 2000 Deluxe or a third-party product is installed

If you want to install V3Pro 2000 Deluxe, you should remove the previously installed version of V3Pro or other vaccine program.   If any previous version is installed, the following screen will prompt you to remove it.   (If a third-party vaccine program is installed, the procedure is the same.)

Select **Yes** to remove the previous version and then install the new version.

Note: Only if you remove all vaccine programs, including the existing program and the third-party programs you have used, you can safely install V3Pro 2000 Deluxe.

2. The **Welcome to V3Pro 2000 Deluxe setup** dialog box showing the copyright information is displayed.   If any other application is running, exit it and then start the setup. Click **Next** to go to the next step.
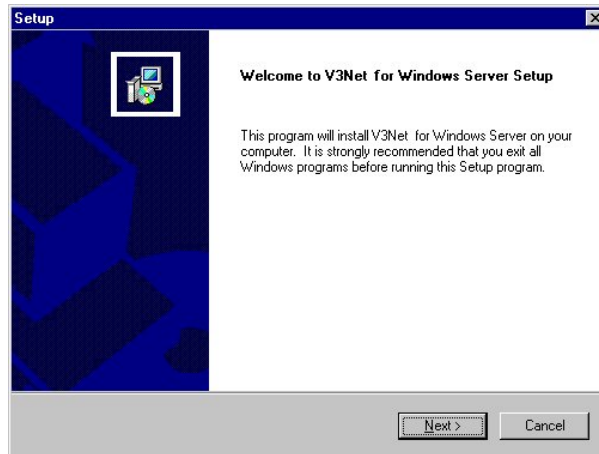

2. First, you are prompted to scan if your system has any virus before installing V3Pro 2000 Deluxe.   You first select one of the options: **Scan all folders**, **Scan the system folder only**, or **No scan**.   If you want to scan for virus in the system, you can select the appropriate option and then click the **Next** button to run V3+ Neo included in V3Pro Deluxe.   After V3+ Neo scans the system, you close the DOS window to return to Windows and then to continue the installation procedures.   (For Windows NT, this message doesn't appear.)

If you click the **Cancel** button, you can directly go to the step 2.   If you click the **Next** button, the following screen will appear.
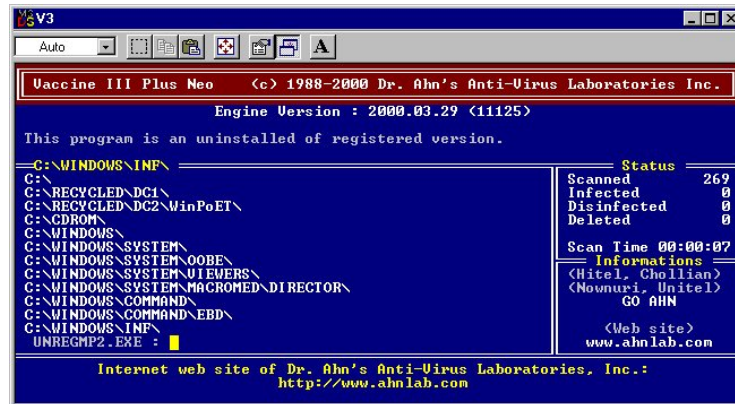

3. The **Welcome** dialog box showing the copyright information about V3Pro 2000 Deluxe is displayed.   It also includes the message that it is strongly recommended that you should exit all Windows applications before running the installation program. Click the **Next** button to go to the next step.   If any other application is running, you should exit it and then start the installation.
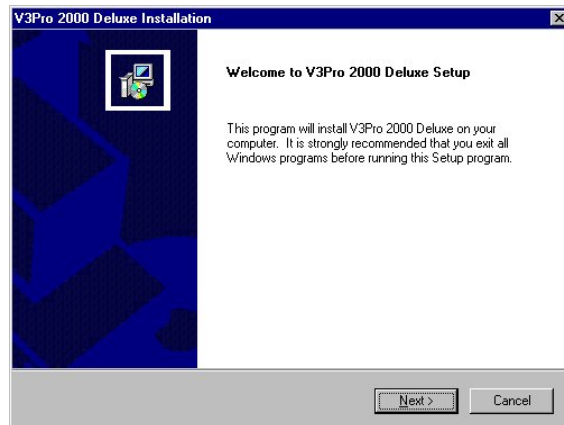
4. Type the user information, including user name, company, serial number (product number) in each field.   For the serial number, you can type the product number inscribed in the sticker attached to the customer registration card.
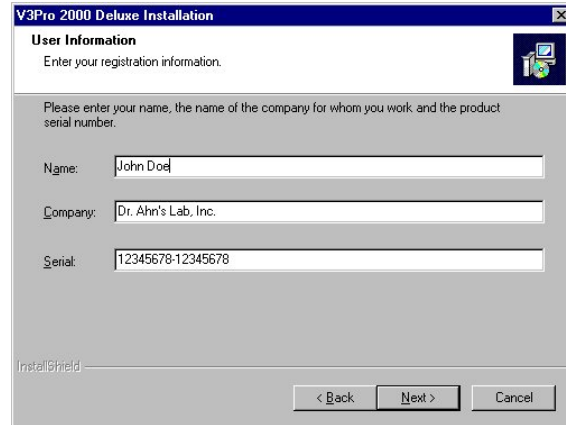

5. Select the folder in which V3Pro 2000 Deluxe will be installed.   The default folder is "`C:\Program Files\V3`."   If you want it to be installed in another folder, click the Browse button to select the appropriate folder.   If you don't change the default folder, "`C:\Program Files\V3`," you can go to the step 6.
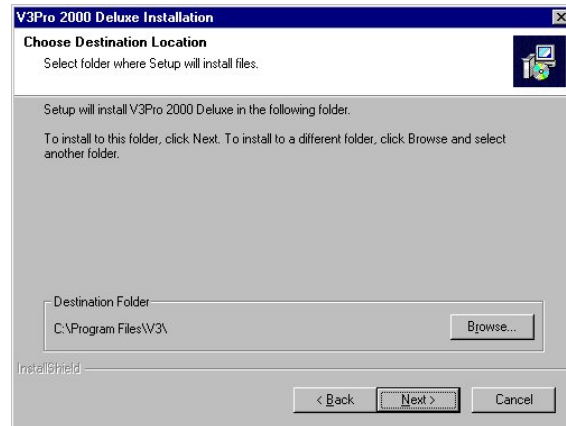

6. If you click the **Browse** button at the step 4, you can select the folder you want as the default.
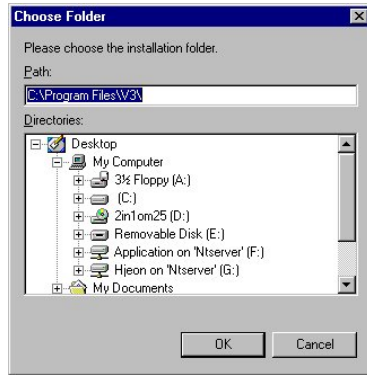
7. If you select the new default folder, you can see the default program folder as V3Pro 2000 Deluxe.   Type the new folder name in the field or select one in the folder list and then click the **Next** button to continue the installation procedures.
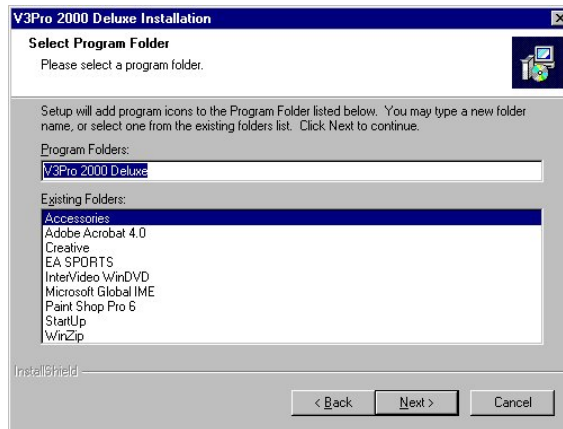
8. Before you install V3Pro 2000 Deluxe, you can confirm what you have selected.   If you want to change any of the selections, click the **Back** button to change.   If you don't, click the **Next** button to continue.
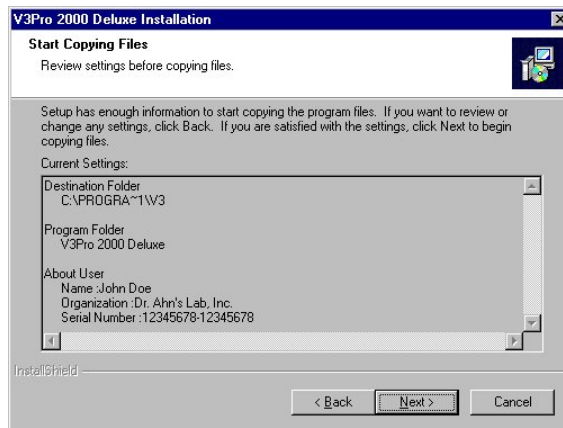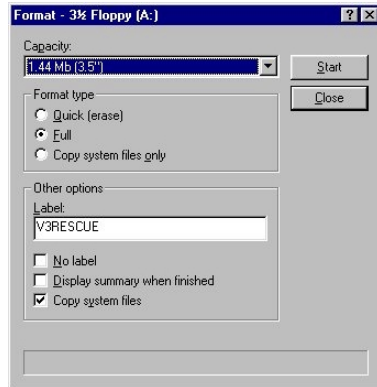

9. Start to install V3Pro 2000 Deluxe.
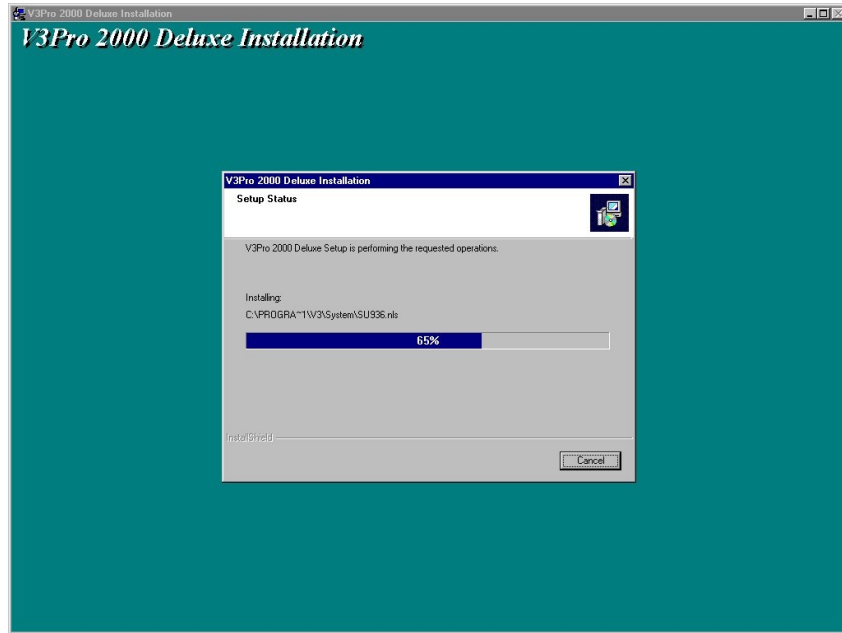
10. To create the SOS diskette, insert the floppy diskette into the drive A and then click the **Yes** button to display the **Format** dialog box.   Specify the format type and the other option and then click the **Start** button to start formatting.   After the format is successfully completed, the SOS diskette will be created.   If the diskette is formatted, all existing data in it will be deleted. Therefore, you should check if there is any important data in it before it is formatted.

Specify the format type and the other optiion and then click the **Start** button to start formatting.   After the format is successfully completed, the SOS diskette will be created.   If the diskette is formatted, all existing data in it will be deleted. Therefore, you should check if there is any important data in it before it is formatted.
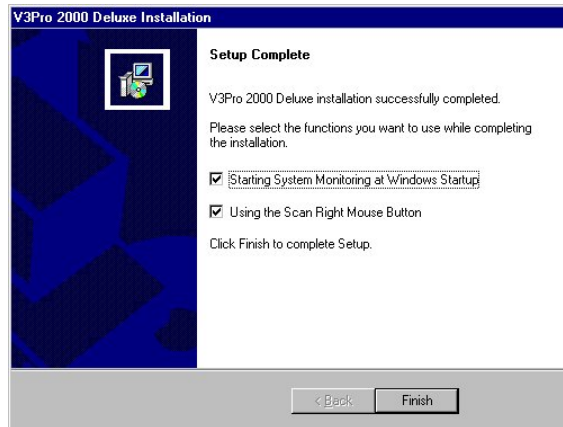
![V3Pro 2000 Deluxe logo]

For Windows NT, the creation of the SOS diskette doesn't prompt you.

11. Now the installation of V3Pro 2000 Deluxe is completed.   If you want to use "Starting System Monitoring at Windows Startup" and "Using the Scan Right Mouse Button" functions, click the **Finish** button.   If you don't, deselect ether or both options and then click the **Finish** button.

12. Click the **Finish** button to complete all installation procedures.

> *Note*:   *If you toggle on "Starting System Monitoring at Windows Startup," installation, the System Monitoring function in Windows 98/95/NT runs and an icon appears indicating that it is monitoring and protecting virus invasion.*

13. After installation is completed, ask you if the Smart Update® utility is run to update to the latest version.
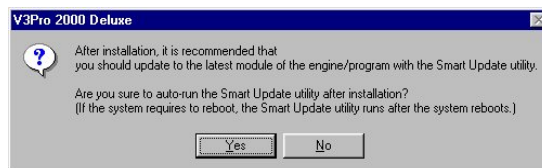
Uninstalling V3Pro 2000 Deluxe

If you want V3Pro 2000 Deluxe to be reinstalled in the folder in which it is already installed, you should remove the existing program to safely reinstall the new one.   If you use the uninstaller included in V3Pro 2000 Deluxe, you can easily remove the program.
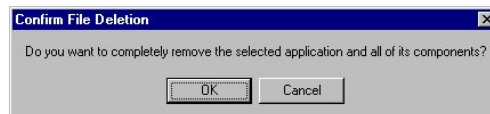
How to uninstall the V3Pro 2000 Deluxe Procedures

1. First, run the Uninstalling V3Pro 2000 Deluxe program in the V3Pro 2000 Deluxe program folder.
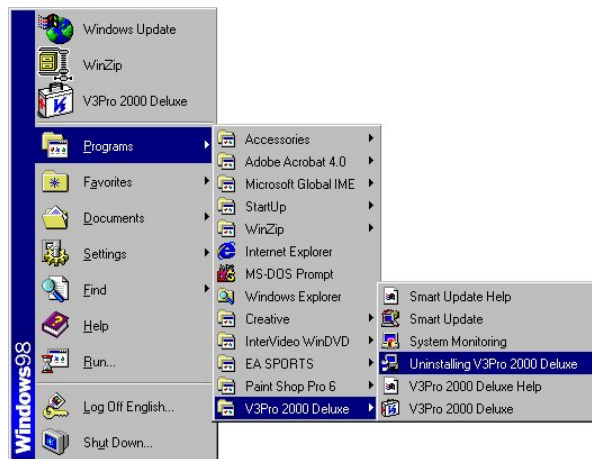
Click **Start** – **Program** – **V3Pro2000 Deluxe** – **Uninstalling V3Pro 2000 Deluxe**.

2. When the following message box is displayed, click the **OK** button to remove the program.

V3Pro 2000 *Deluxe*

3. The dialog box showing the procedures of removing the V3Pro 2000 Deluxe components is displayed and uninstalling will be completed.
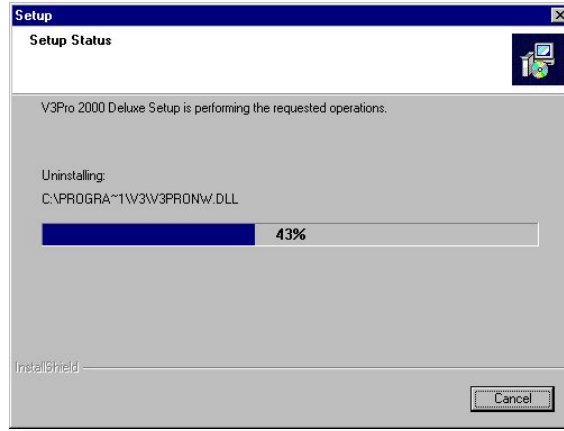
Chapter 3

Touring at a Glance

- *Running V3Pro 2000 Deluxe*
- *Main Components*
- *Scan and Cleanup Features*

Running V3Pro 2000 Deluxe

To run V3Pro 2000 Deluxe, click the **Start** button in the taskbar of Windows 9x / NT (Workstation) / 2000 (Professional) and then place the mouse pointer on **Program**.　When the program group, actually a group of folders, is displayed, move the mouse pointer on **V3Pro 2000 Deluxe** and then select **V3Pro 2000 Deluxe** to run the program.　In addition, because the running icon is automatically registered in the Start program after installation, you can click this icon to run the program.
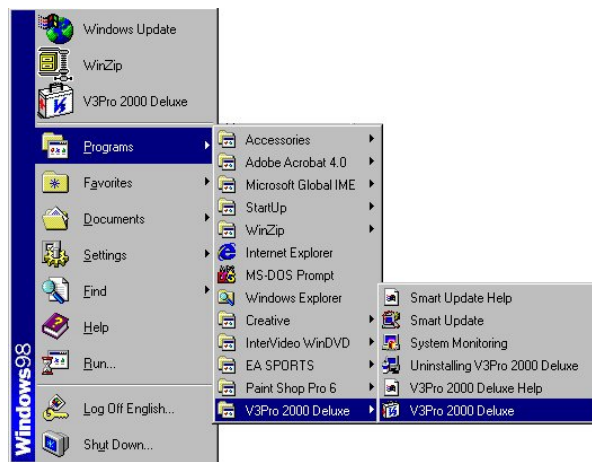
After V3Pro 2000 Deluxe is completed, this icon is automatically registered in the Program group.　Select this icon to run the program or click **Start** – **Program** – **V3Pro2000 Deluxe** – **V3Pro 2000 Deluxe**.

Main Components

When V3Pro 2000 Deluxe starts, the About screen flashes and then the main screen of V3Pro 2000 Deluxe, the Manual Scan screen, appears.
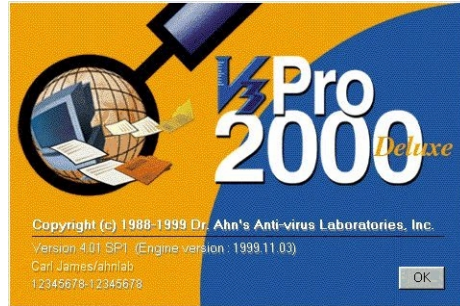
In default, the menu window of V3Pro 2000 Deluxe consists of Manual Scan, Scan Status, View Information, View Logs, Backup Management & Transfer to Reporting Center, Tools, and Web Link.

![V3Pro 2000 Deluxe]

Basic components, names, and functions are as follows:

- **Toolbar -** Shows tools frequently used in the V3Pro 2000 Deluxe
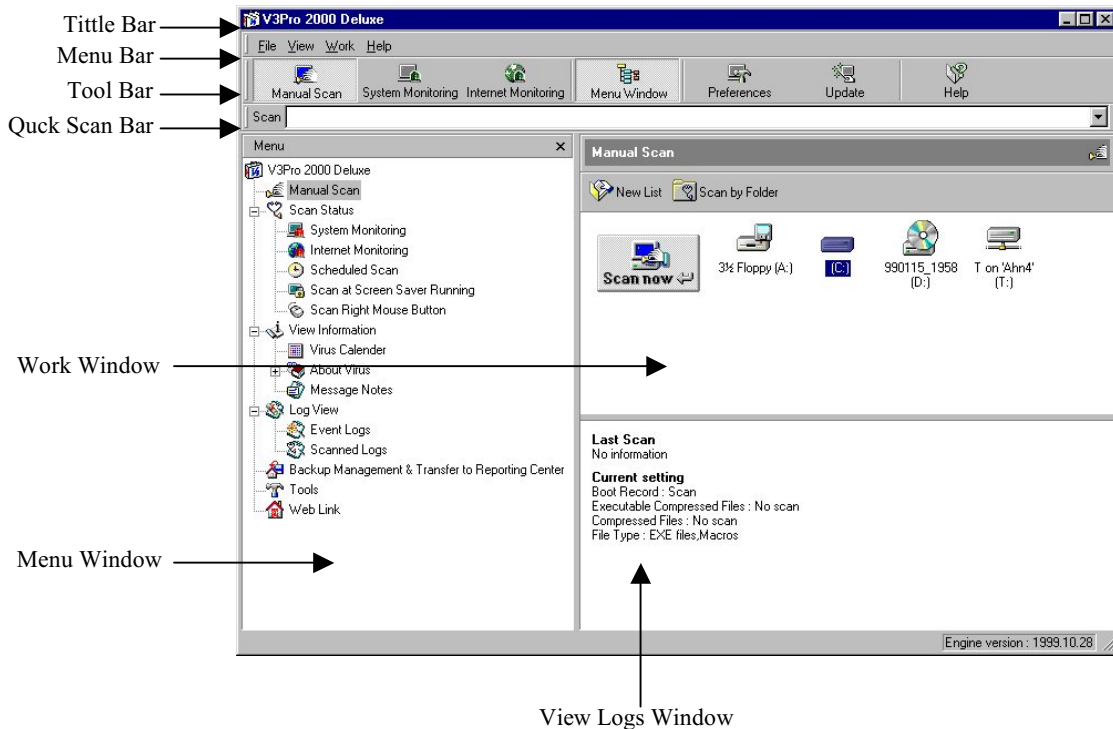- **Quick Scan Bar -** Types the object you want to scan in the field
- **Menu Bar -** Shows the menus that contain functions provided in V3Pro 2000 Deluxe
- **Menu Window -** Is the command menu window in V3Pro 2000 Deluxe
- **Work Window -** Shows the works in each menu
- **View Logs Window -** Shows various information about each work

Menu descriptions in the Menu window

- **Manual Scan -** The initial screen displayed when V3Pro 2000 Deluxe starts. On this screen you can specify the object to scan by drive or folder.   If you specify the option and then click the **Start Scan** button, you can see scanning.
- **Scan Status -** You can view the options about System Monitoring, Internet Monitoring, Scheduled Scan, Scan at Screen Saver Running, Scan Right Mouse Button, etc.
- **View Information -** You can get a lot of useful information from Virus Calendar, About Virus, Message Notes menus.
- **View Logs -** You can view the event logs and the scanned logs, including System/Internet Monitoring, Scanned Logs at Virus Detection, Engine Update Success/Failure Logs, etc.
- **Backup Management and Transfer to Reporting Center -** Provides the functions to backup the infected files to any folder or transfer the suspiciously infected files, with an e-mail message attached, to Reporting Center.
- **Tools -** Includes such various useful tools as Smart Update, Neo Scan, Create SOS Diskette, Install/Uninstall Office Protector, which make V3Pro 2000 Deluxe more powerful vaccine program.   If you take full advantages of these tools, you can make you system more powerful Anti-Virus protection environment. (For Windows NT, the functions such as Backup Boot Record, Create SOS Diskette, and Neo Scan are not included.)
- **Web Link -** Is the function that you can access the Ahn's Lab web site (Ahn's Lab Home Page, Ahn's Lab News, New Virus, Virus FAQ, Virus News Webzine, Online Registration).

System Monitoring

The System Monitoring in V3Pro 2000 Deluxe safely protects your system from being attacked by virus under all situations.   It prevents virus streaming from the external sources in the level of the operating system while it is working 24 hours and provides actions to clean, delete, and backup the infected files when virus is detected.

For Windows NT System Monitoring is supported in the service program.

Toolbar

Toolbar provides core functions that help you to more quickly select to run.

| Manual Scan | System Monitoring | Internet Monitoring | Menu Window | Preferences | Update | Help |

![V3Pro 2000 Deluxe logo]

Scan and Cleanup Features

You can learn how to simply scan and clean a virus detected before you learn the detailed features of V3Pro 2000 Deluxe.
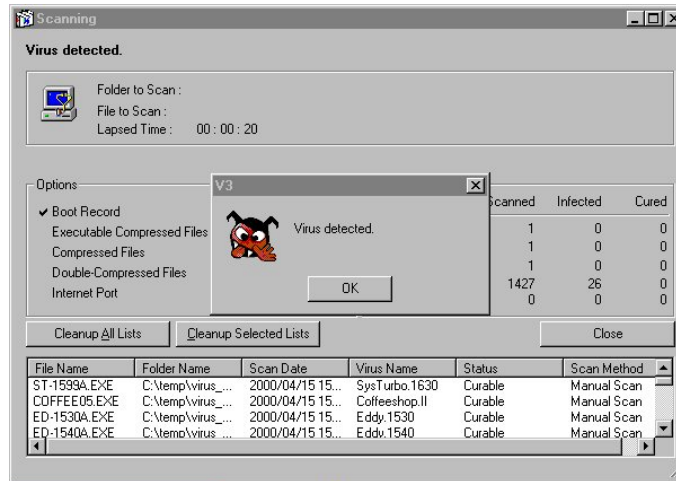
Scan Virus

When you run V3Pro 2000 Deluxe and select the drive to be scanned on the **Manual Scan** screen, the icons of the selected drives are highlighted.   If you select the object to be scanned, press the **Start Scan** button to scan the drive (If there is one drive you want to scan, you can double-click the drive to start scanning).   If you want to scan one or more drives, you can drag and drop one or more drives to be specified.
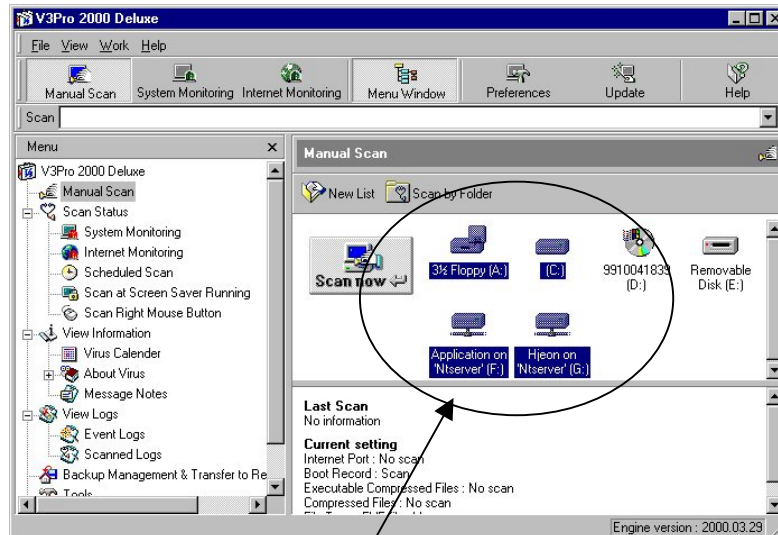
Drag and drop to specify the object to be selected.

Detect virus and clean

If a computer virus is detected while scanning, information about Filename, Folder Name, Scan Date, Virus Name, Status, Scan Method, etc. of the infected file will be displayed with a warning sound ("beep").   The cleanup starts according to the options (**General** in **Preferences**) you specified.

■ **Clean All Lists -** You can select this option when viruses are detected and you want to clean all viruses registered in the **Clean Virus** window.

■ **Clean Selected Lists -** Clean the files only in the list you specified.

If you want to clean all lists here, you can select **Clean All Lists**, or if you want to clean the selected lists, you can select **Clean Selected Lists**.

When the following message box is displayed on the screen, click the Yes button to clean the infected files.
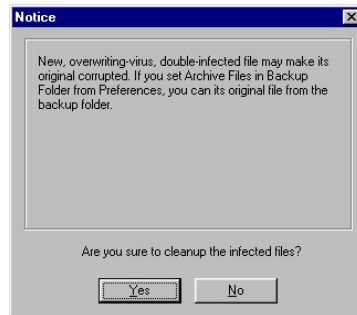
Cleaning starts.
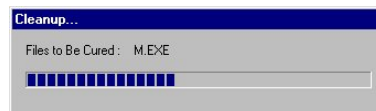
After cleanup, the following message box is displayed telling you about the cleanup status.

Exit

If you want to exit V3Pro 2000 Deluxe, you can select the **File** - **Exit** menu, or press the **Close** button at the right upper corner on the screen, to exit the program. Every time the program exits, the **Wait for a moment…** dialog box is displayed.
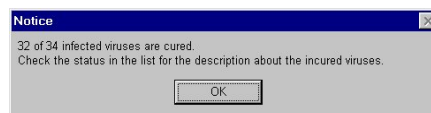

From this dialog box, various types of virus are introduced in a simple tip format. Please refer to this information and press **Yes** to exit V3Pro 2000 Deluxe.

> *Note*:   *Though V3Pro 2000 Deluxe exits, System Monitoring continues to run.   You should exit System Monitoring separately.*

View Help

While you are using V3Pro 2000 Deluxe and if you have any question, click **Help** - **Help Topics** or select **Help** in the standard menu to display the information you want to see.
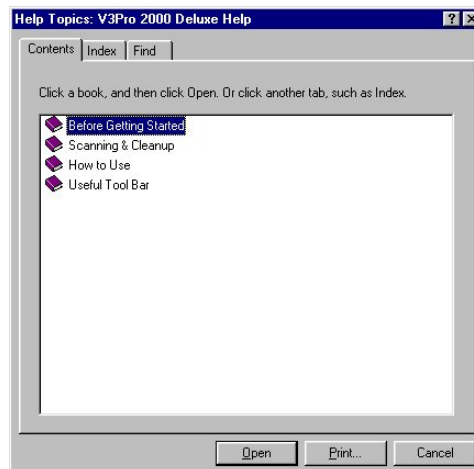
Taking Actions Depending on the Status Information in the Clean Virus Window

After scanning virus, you can view the following status information in the **Clean Virus** window: **Cured**, **Curable**, **New Virus**, **Executable Compressed Files**, **Compressed Files** and **Incurable**.

Curable

V3Pro 2000 Deluxe automatically cleans the infected file completely.   When the following messages are displayed among the curable files, please take any appropriate action.

- As the file is corrupted with a virus, it is processed according to the option specified.
- Decrypt the Word file and clean it.
- Decrypt the Excel file and clean it.
- Decrypt the PowerPoint file and clean it.
- As the file is corrupted or bad-coded, it is to be deleted.
- After removing the worm file, delete `WSOCK32.DLL` in the Windows system folder and rename `WSOCK32.SKA` to `WSOCK32.DLL`.

New Virus (Transfer to the Reporting Center of Ahn's Lab)

This is the virus that is detected but incurable.   In this case, please transfer the infected file to the Virus Reporting Center of Ahn's Lab.

Executable Compressed Files (decompress and then rescan)

Compressed Files (decompress and then rescan)

If you select **Executable Compressed Files** and **Compressed Files** in the **Preferences** for scanning, you can scan any viruses included in the compressed file but cannot clean the file.   Decompress the file and clean it.

Incurable (double-infected, infected with overwriting virus)

This message is displayed when the file not properly cleaned is detected. When a file infected simultaneously with one or more viruses are corrupted, infected with an overwriting virus destroying files and then it becomes 0 byte after cleanup, or encrypted or running (or open) in other applications, the status information is displayed as does in case of cleaning the write-protected diskette.

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Chapter 4

Getting Started

V3 Pro 2000 *Deluxe*
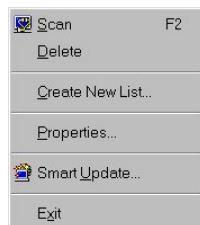
Using Menu Bar

The following descriptions are about functions from **Menu** bar.   Some menu items in the **File** menu depend on the content of each Menu window.   By default, this is the content of the Menu bar displayed when this is in the **Manual Scan** mode.

File

```
Scan              F2
Delete

Create New List...

Properties...

Smart Update...

Exit
```

- ■   **Scan -** Scans the objects specified in the manual scan.
- ■   **Delete -** Deletes the selected lists or objects.
- ■   **Create New List -** Creates a custom object to be scanned
- ■   **Properties -** Shows the information about the folder specified as the list to be scanned.
- ■   **Smart Update -** Gets the update service over Internet.
- ■   **Exit -** Exits V3Pro 2000 Deluxe.

View

```
Toolbar            ▶
✔  Status Bar

   Menu Window

✔  View Logs

●  Scan by Drive
   Scan by Folder
```
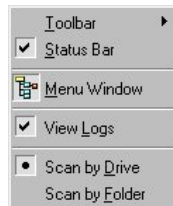
- ■   **Toolbar -** Shows or hides the standard button or quick scan bar.
- ■   **Status Bar -** Shows the status Bar.
- ■   **Menu Window -** Shows the menu window.
- ■   **View Logs -** Shows the view logs window.
- ■   **Scan by Drive -** Allows scanning by drive.
- ■   **Scan by Folder -** Allows scanning by folder.

Work
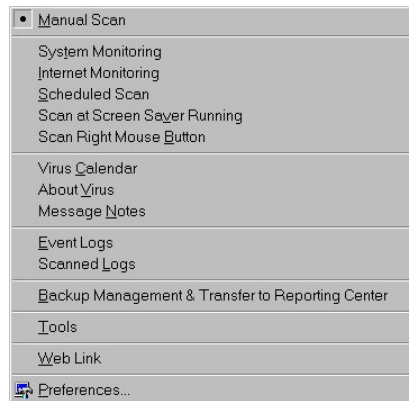
- ■ **Manual Scan -** Sets the manual scan option
- ■ **System Monitoring -** Sets the system monitoring option
- ■ **Internet Monitoring -** Sets the internet monitoring option
- ■ **Scheduled Scan -** Sets the scheduled scan option
- ■ **Scan at Screen Saver Running -** Sets the scan options at screen saver running option
- ■ **Scan Right Mouse Button -** Sets the scan right mouse button option
- ■ **Virus Calendar -** Is a warning calendar that represents viruses being activated on the specific date
- ■ **About Virus -** Is a database that contains the analyzed information about viruses
- ■ **Message Notes -** Is a message content that Ahn's Lab sends
- ■ **Event Logs -** Show system/Internet monitoring, scanned logs, and engine update successful/failed logs.
- ■ **Scanned Logs -** Show the scanned logs.
- ■ **Backup Management & Transfer to Reporting Center -** Archives the detected virus in the backup folder, or transfer it to Virus Reporting Center in Ahn's Lab.
- ■ **Tools -** Is a several useful tool bar that includes Smart Update, Neo Scan, Backup Boot Record, and Create SOS Diskette.
- ■ **Web Link -** Links to the Ahn's Lab web site.
- ■ **Preferences -** Sets the appropriate options for each scan feature.

Help
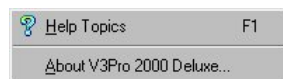
- ■ **Help Topics -** Shows Help.
- ■ **About V3Pro 2000 Deluxe -** Checks user, serial number and engine date, etc.

Shortcut Keys

Shortcut Key	Description
F1	Help
F2	Start Scan in the Manual Scan window
F3	Shift to Quick Scan Bar
F5	Refresh in Message Notes, Event Logs, and Scanned Logs
F6	Go to the next window
Shift + F6	Go to the previous window

Direct Scan with Quick Scan Bar
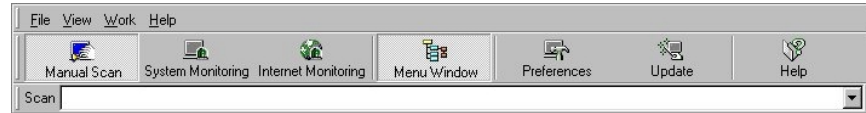
The symbol that distinguishes a folder is an empty space, '   '.   When you type
the objects to be scanned from the **Quick Scan** bar.   One or more folders is
typed with the empty space separated and long folder name or folder with an
empty space is separated with "   ".   (For reference, as scanning any destination
folder doesn't include its sub folder or sub folders, you can specify /s option to
scan all sub folders.)

Item	Description
Option parameter	/?
Scan by drive	C:
Scan by folder	C:\windows
Scan one or more folders	C:\windows, "c:\program files" d: /s
Scan sub folder	C:\windows /s
Scan all files	C:\windows /a
Scan compressed files	C:\windows /c /s
Scan by file	C:\windows\win.com
Scan networked sharing folder	\\ahn4\t\

Running System Monitoring

System Monitoring is a program that monitors the system from any probable attack by virus in the level of operating system.   It works when Windows 9x / NT (Workstation) / 2000 (Professional) starts, until you disables this option separately from the **Preferences** menu or in installing V3Pro 2000 Deluxe. When it is launched, the System Monitoring icon is created at the right of the Windows task bar.   If you hold and place the mouse pointer on the icon and then press the right mouse button, 3 features are displayed as follows:

```
Open
Pause
Exit
```

■   **Open -** Runs the V3Pro 2000 Deluxe main program.
■   **Pause -** When System Monitoring is paused, the shape of the mouse pointer is changed.   If you want to start this again, you can deselect it.
■   **Exit -** Exits the System Monitoring program.

If you want to start the System Monitoring directly from Windows, select **Startup** - **Program** - **V3Pro 2000 Deluxe** - **System Monitoring**.

Manual Scan

To scan in the Manual Scan mode

This is the menu that specifies the object to be scanned and scans virus.   The **Manual Scan** window also displays the engine date and the selected options you specified.
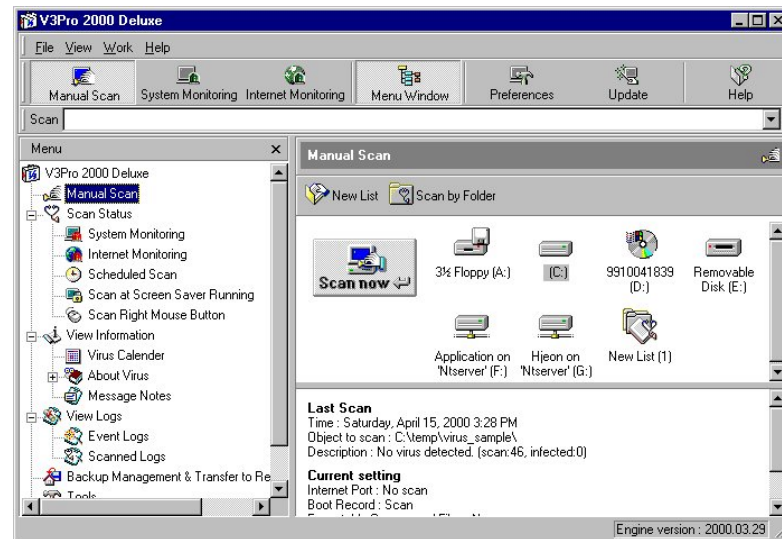
In the Work window, V3Pro 2000 Deluxe automatically recognizes all installed drives connected to the current system and displays them as icons.   In addition, the window acts as if it were the **Set the Custom Object to Be Scanned** dialog box in which you can specify each icon as an object to be scanned.

As you click each icon, it is highlighted and specified as an object that virus is scanned.   On the contrary, if you want to deselect the objects to be scanned, double-click to deselect them.

If you specify the objects to be scanned in the Work Window and then click the **Scan Now** button, scanning starts.   If you double-click the drive to be scanned in the window, scanning immediately starts.

If any virus is not detected after scanning, a message, "No virus detected," will be displayed.   If any virus is detected, the **Cleanup Virus** dialog box is automatically displayed and then cleanup starts.
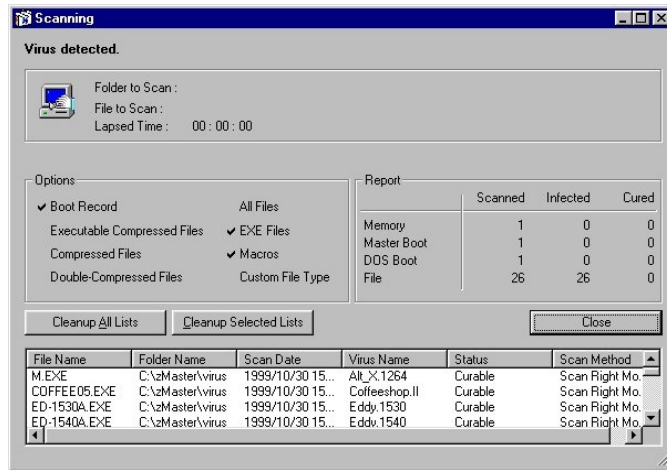
New List

You can customize a new object list.

This is the function that scans only the folder or the drive you specified separately. Because you can separately set the sector needed especially for the focused scan according to your situation, you can minimize ineffectiveness that all drives are scanned and save the scanning time.   This is very useful, especially for the user who uses a large hard disk space.
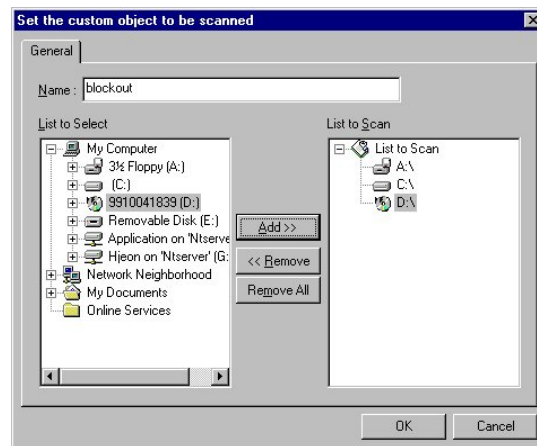
In the **Manual Scan** window, you can click the **New List** button to display **Set the Custom Object to Be Scanned** dialog box.   The left window shows **List to Select** while the right window displays List to Scan.   Select objects you want to add to the right window and then press **OK**.

Scan by Folder/Scan by Drive

If V3Pro 2000 Deluxe is first running, the **Scan by Drive** screen is displayed by default in the **Manual Scan** window.   If you want to change the setting into by folder, you can select **Scan by Folder**.
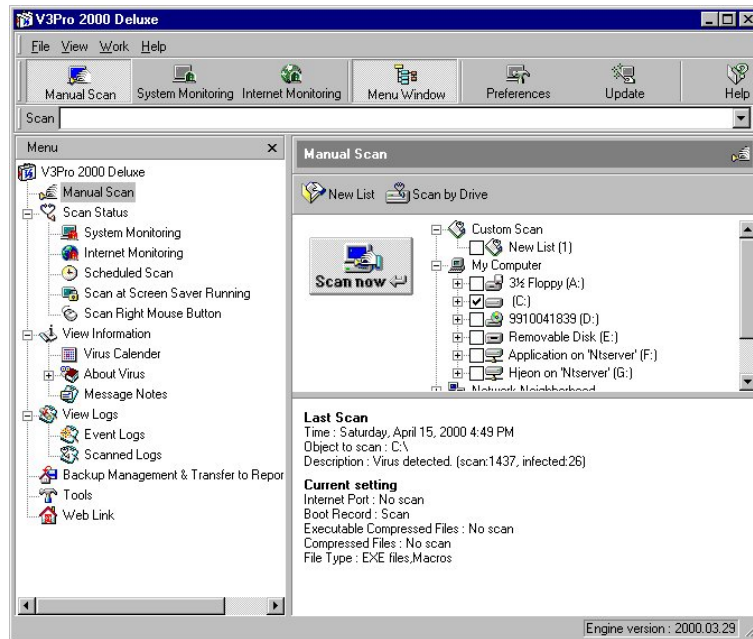
If you want to change the setting again, you can select **Scan by Drive**.

Scan Status

System Monitoring

You can see whether System Monitoring is running now or paused.   System Monitoring works in the level of the operating system when Windows starts, recognizes the file stream, and automatically scans for virus until you disable the option from the **Preferences** menu or installing the program.
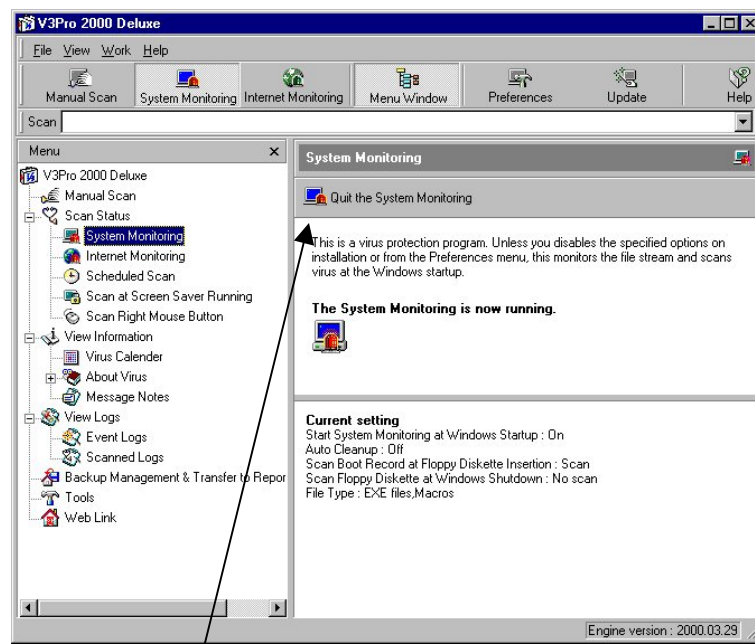
If you select this button, **System Monitoring** is terminated.

Internet Monitoring

You can check at a glance on the screen the status of the data streaming from and to Internet.   If you want to scan all TCP/IP-based protocols, select **All Protocols**. If you want to scan the specific protocols, you can specify the protocol you want from the **Preferences** menu.
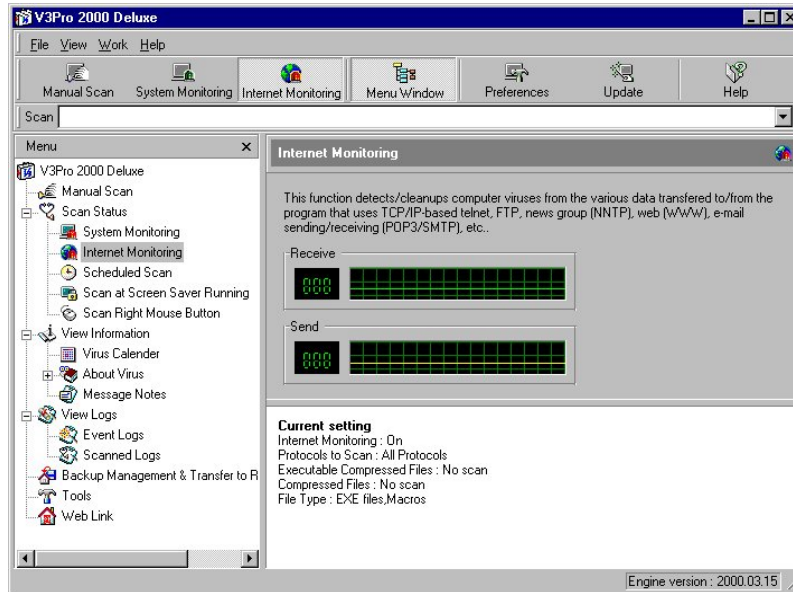
Scheduled Scan

You can view the pending status of the scheduled scan.   If you want to add another scheduled scan, click **Scheduled Scan Wizard** to set the schedule you want.
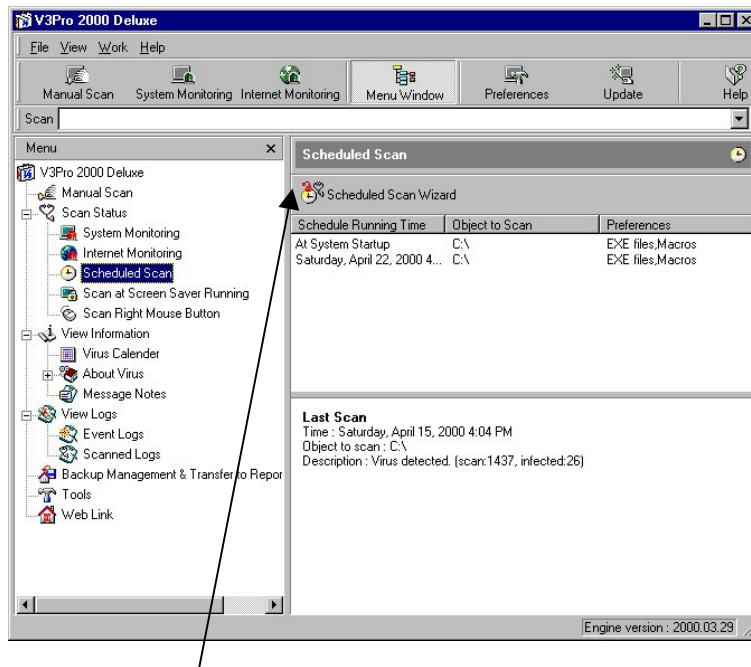
If you select this button, **Scheduled Scan Wizard** runs.

Scan at Screen Saver Running

You can view the setting status at the screen saver running.   If you want to specify the option for scanning at the screen saver running, the sector you specified will be scanned in background mode after the screen saver is running. It is also very convenient to use this function for the long time you have not used the computer.
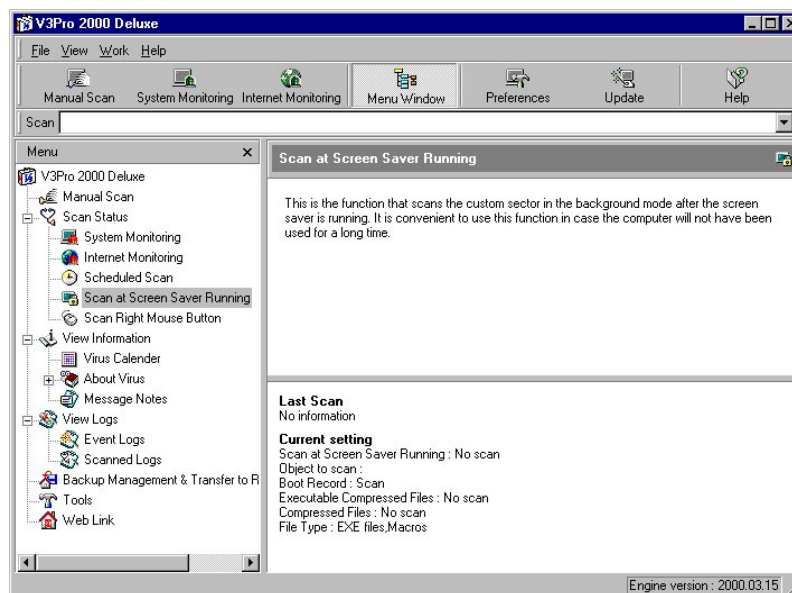
Scan Right Mouse Button

You can see the setting status when the right mouse button is scanned. **Scan Right Mouse Button** allows you to scan directly drives, folders, and files in Windows Explorer.
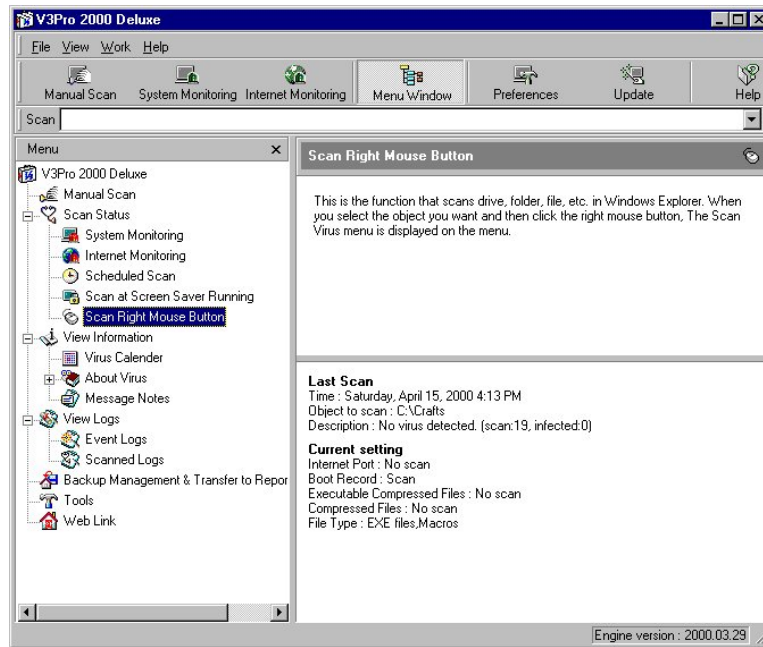
When you select the objects you want and then click the right mouse button, the **Scan** menu will be displayed on the shortcut menu.
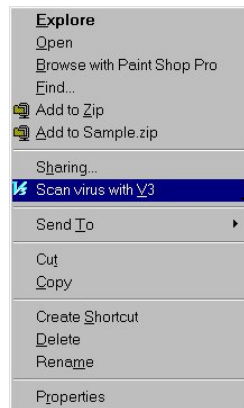
If you select this menu, you can start scanning in Windows Explorer.

You can start scanning the specified objects right after you select **Scan Virus with V3** on the shortcut menu.

Viewing Information

Virus Calendar

Virus Calendar displays the calendar with the current month and the list indicating viruses activated on the current date.   To view the viruses activated on the specific date, roll up the calendar to the month you want, place the mouse pointer on the date, and then click to view the information on that date.
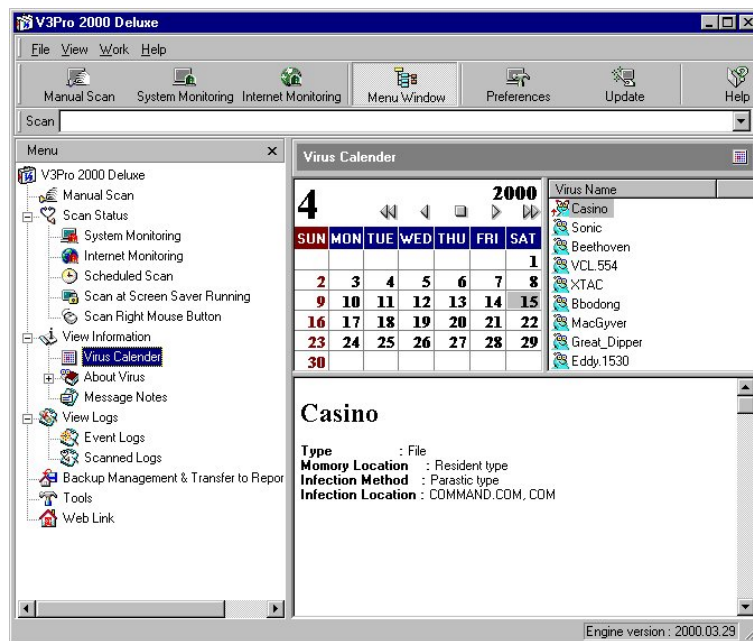
About Virus

You can see by items the analyzed information about diagnosis/curable viruses. You can also get more information about all viruses, boot virus, file virus, boot/file virus, and macro virus.
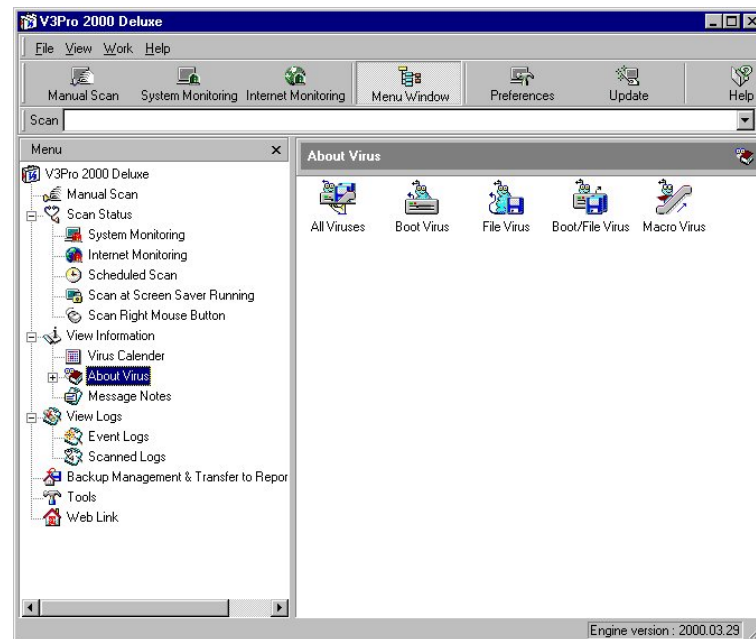
- ■ **All viruses -** all types of virus
- ■ **Boot -** virus that infects the boot record
- ■ **File -** virus that infects file or files
- ■ **Boot/File -** virus that infects both the boot record and EXE files
- ■ **Macros -** virus developed by using macro functions

If you select the information about the virus you want to know, the **About Virus** dialog box will be displayed.   The dialog box displays total 7 menus.   You can see the information about each virus when you click to select it.

Message Notes

You can see the text document Ahn's Lab sends in distributing the update files. This document contains information about existing virus, new virus, and other viruses.

Viewing Logs

Event Logs

Event Logs show System/Internet monitoring, scanned logs when a virus is detected, and engine update successful/failed logs.
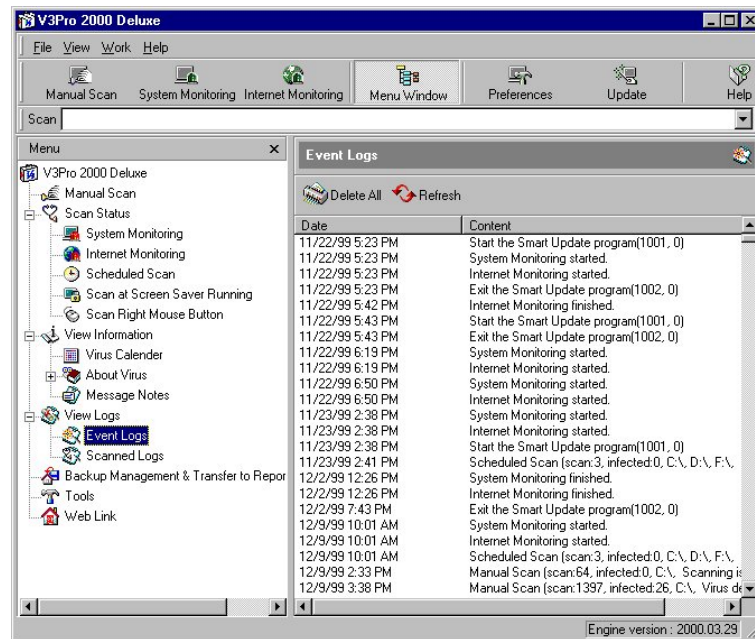
■ **Delete All** - Deletes all current logs written.

■ **Refresh** - Shows the changed content when new content is added.

Scanned Logs

V3Pro 2000 Deluxe archives the scanned logs when a virus is detected after scanning and allows you to refer to the content of the scanned logs.   The **Scanned Logs** menu is a function that, if the scanned logs are selected, information about all viruses that have been so far scanned can be viewed.   The File Name column shows infected files; and the Folder Name column shows the path in which the infected files are located.   The Virus Name column lets you know the name of a virus.   The "Status" column shows the result of the scanned logs that determines if any infected file is curable, incurable, or cured.
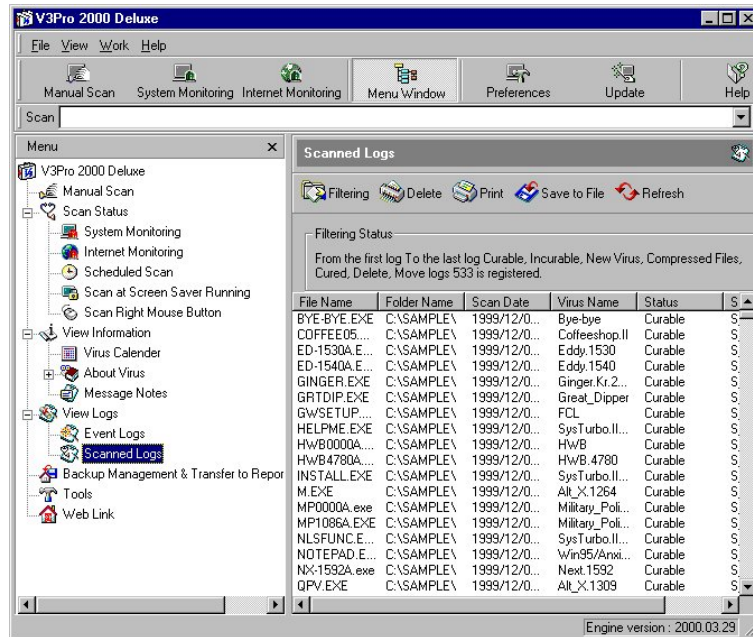
V3Pro 2000 *Deluxe*

Preferences

V3Pro 2000 Deluxe has a variety of preferences you can use. You can set General, Manual Scan, System/Internet Monitoring, Scheduled Scan, Scan at Screen Saver Running, Scan Right Mouse Button, etc.

Set Cleanup

Select **Preferences** - **General** to set the following general scan options.

■ Archive File in Backup Folder at Cleanup
■ Process Incurable Files
■ Sound at Virus Detection
■ Display Scanned Logs at Virus Detection Only
■ Archive Scanned Logs/Set DMZ

Set Scan

■ **Scan Boot Record -** Scans the boot record of the system.
■ **Scan Executable Compressed Files -** Scans compressed executable files such as DIET, LZEXE, and PKLITE. .
■ **Scan Compressed Files -** Scans the compressed files with extension such as ZIP, ARJ, RAR, JAR, CAB, LHA, UUEN/DECODE, ZOO, and MIME.
■ **Scan Double-compressed Files -** Scans the double compressed files.

File Type to Scan

■ **Scan All File Types -** Scans all file types, including macro, executable, compressed, normal document.
■ **Scan Executable Files -** Scans the executable files, including COM, EXE, OVL, DLL, BIN, etc..
■ **Scan Macros -** Sets the files likely to be easily infected by macros.
■ **Set Custom File Type -** Sets the files with user-defined file extension.

General Preferences

Select **Preferences** - **General** to display the scan options for each scan method.
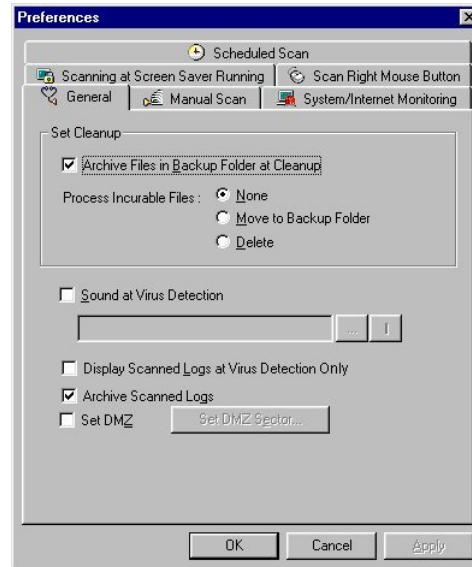
This option is specified for the files to be scanned when you use each scan method.   You can specify how to process the file: for example, **Archive Files in Backup Folder** and **Process Incurable Files at Cleanup**.   This option includes **Sound at Virus Detection**, **Display Scanned Logs at Virus Detection Only**, **Archive Scanned Logs**, and **Set DMZ** (DMZ is "an area not to scan").

- ■ **Archive Files in Backup Folder at Cleanup** - As a function for the case when original file is damaged, this option backs up the infected file before cleaning up.   For example, when a DATA.COM file is infected by virus, DATA.V3B file (extension name is changed to V3B) is created in the backup folder.
- ■ **Process Incurable Files** - When a virus that cannot be completely cured is detected, you can move or archive the files in the user-defined folder or delete them.   The default is "None" and incurable files can be moved to the backup folder or deleted immediately if you want.
    - ■ **None:** Leave the file as is in the original one.
    - ■ **Move to Backup Folder:** Move infected files to backup folder.
    - ■ **Delete:** Delete infected files.
- ■ **Sound at Virus Detection** - You can specify the sound file to play when virus is detected.   You can specify a WAV file commonly used.
- ■ **Archive Scanned Logs** - If you select this option, scanned logs for virus are created daily.   (Event logs are always saved.)
- ■ **Set DMZ** - This option means, "set an area not to scan."   This is a useful function for the user who has a large hard disk space. It is usually used when the folder doesn't seem to have any virus in it and considered to be time-consuming job.   This option should be carefully selected, as the selected

area cannot be scanned with any function of V3Pro 2000 Deluxe.   For
beginners, it is desirable not to set the "DMZ" option.

Manual Scan

Manual Scan is one of the scan options that you can select a drive or folder and
then click Start Scan to scan for virus in the initial window displayed when
V3Pro 2000 Deluxe runs.   The default option is Scan Boot Record, Executable
Files, and Macros.
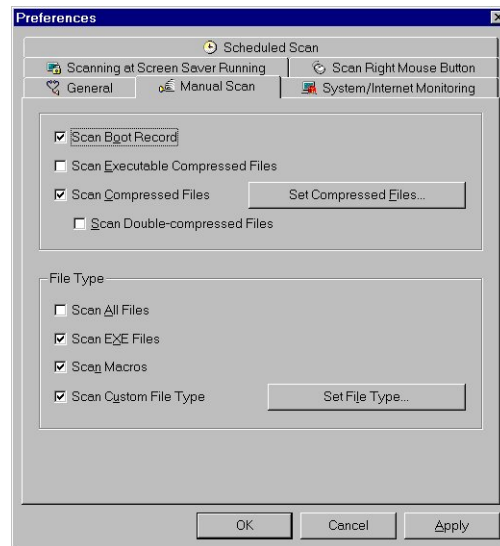
System/Internet Monitoring

The System/Internet Monitoring program prevents the infected files from running
in the Windows system level.   V3Pro 2000 Deluxe recommends you to install
the System/Internet Monitoring function in when you setup the program.   If it is
installed, System Monitoring runs in the background, protecting the system from
being infected by virus.

The System Monitoring icon is displayed on the right end of the Taskbar of
Windows 9x / NT (Workstation) / 2000 (Professional).   This icon tells you that
System Monitoring is enabled in Windows 9x / NT (Workstation) / 2000
(Professional).
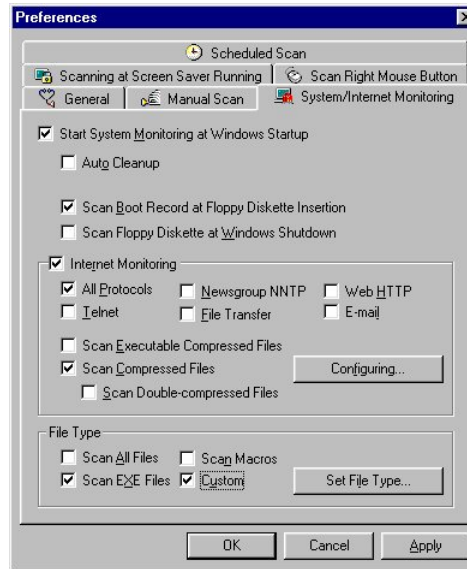
> *Note: Since Internet Monitoring is integrated into System Monitoring, it will not run if System Monitoring is stopped.*

System Monitoring options

- **Start System Monitoring at Windows Startup -** If System Monitoring is specified to starts at Windows startup, its icon is displayed.   You can uncheck this option to disable the function.
- **Auto Cleanup -** As a powerful Anti-Virus function, this option automatically cleans, or executes or opens uninfected files only when you try to execute or open infected files.   Damages by file viruses and macro can be fundamentally prevented.
- **Scan Boot Record at Floppy Diskette Access -** Whenever you insert the floppy diskette in the drive, this option allows you to scan the diskette to prevent it from being infected by any virus.
- **Scan Floppy Diskette at Windows Shutdown -** Scans the floppy diskette at Windows shutdown and prevents the system from being attacked by any virus from the floppy diskette.

File Type

- **Scan All Files -** Scans all file types.
- **Scan Macros -** Scans files likely to be infected by macro viruses.
- **Scan EXE Files -** Scans all executable files such file extensions as COM, EXE, OVL, DLL, BIN, etc..
- **Custom -** Scans file types that user specifies.

In terms of stability, it is desirable to set "Scan All Files" as the default.   Most viruses are first likely to infect EXE files and macros.   Therefore, if you set the object to scan to Scan EXE Files or Scan Macros, you can save the time to scan.

Internet Monitoring

■ **All Protocols -** Monitors all Internet protocols.

■ **Newsgroup NNTP -** Monitors newsgroup NNTP.

■ **Web HTTP -** Monitors web HTTP.

■ **Telnet -** Monitors telnet..

■ **File Transfer -** Monitors file transfer protocol.

■ **E-mail -** Monitors POP3 and SMTP..

■ **Scan Executable Compressed Files -** Scans executable compressed files such as DIET, LZEXE, PKLITE, etc..

■ **Scan Compressed Files -** Scans files with such extensions as ZIP, ARJ, RAR, CAB, LHA, UUENCODE/UUDECODE, ZOO, etc..

■ **Scan Double-compressed Files -** Scans double-compressed files.

Scheduled Scan

This option is used with the **Scan at Screen Saver Running** function. If the system has been running for a long time, the user-defined area is scanned at the user-defined time.

Scheduled Scan is not set as the default, but allows you to scan the specified drives or folders when the system starts once everyday, every week, or every month.
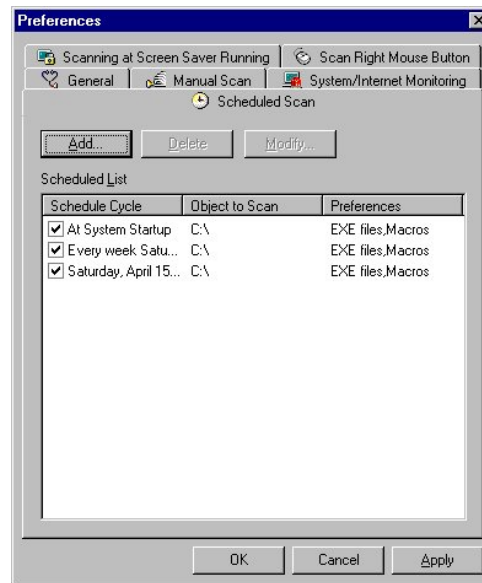
If you click the **Add** button, **Scheduled Scan Wizard** is running and displays the dialog box that allows you to specify the schedule. After the schedule is set, you can select any scan method and file type you want to use.

Scan at Screen Saver Running

This option scans the user-defined area in the background mode when the screen saver is enabled.   This is not the default option.
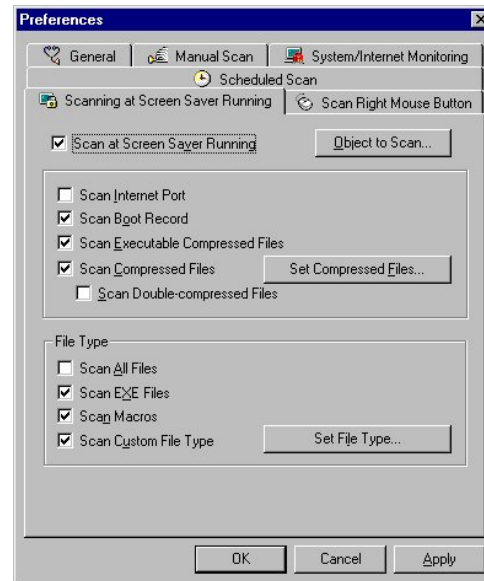
Scan Right Mouse Button

This option specifies if the scan function for the specific object (for example, drive, file, and folder) is executed by clicking the right mouse button.   V3Pro 2000 Deluxe recommends you to set this option.   If you, however, check off **Add Virus Scanning Fuction to Shortcut Menu**, this option is disabled.
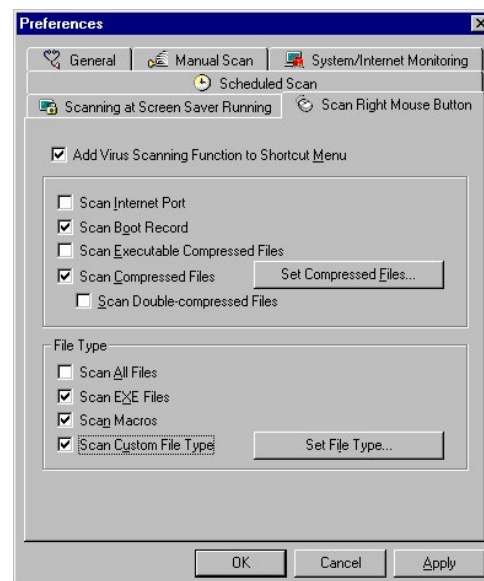
Backup Management and Transfer to Reporting Center

If the user who wants consulting about computer virus and reports a new virus is connected to Internet, he or she can access the Ahn's Lab web site (www.ahnlab.com) to send directly the message or attach a suspicious file for reporting.   If you access the Ahn's Lab web site, go to the **Reporting Center** menu, and then select **Virus Reporting Form**, it will be displayed for consulting. If you ask a question based on this form, you can get a quick response.

If you select **Backup Management & Transfer to Reporting Center** from the **Work** menu in V3Pro 2000 Deluxe, you can access directly **Reporting Center** in the Ahn's Lab web site over Internet.
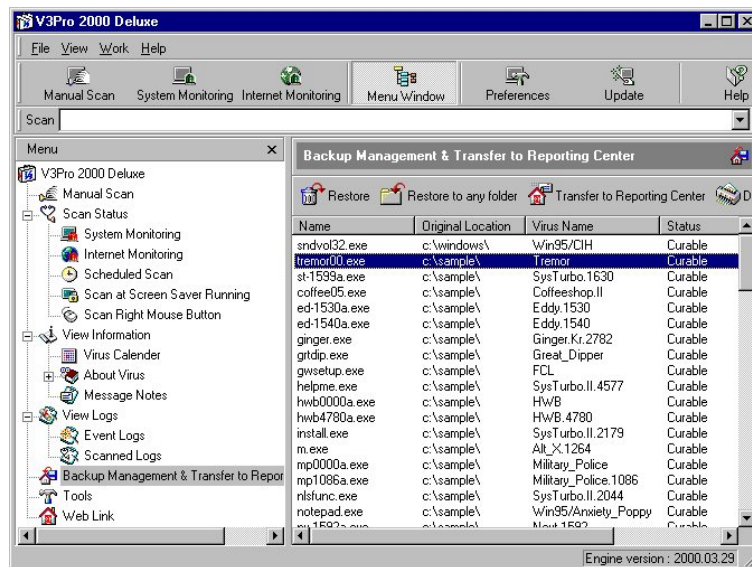
- ■ **Restore -** Restores to the original folder.   Be careful of the infected file.
- ■ **Restore to Any Folder -** Moves to another folder.
- ■ **Transfer to Reporting Center -** Sends to the Virus Reporting Center in Ahn's Lab.   You can send new incurable viruses only.
- ■ **Delete -** Deletes the selected objects.
- ■ **Properties -** You can see the file information about the status before backup.

Chapter 5

Useful Tools

- *Smart Update*
- *Neo Scan*
- *Backup Boot Record*
- *Creating SOS Diskette*
- *Office Protector*
- *Web Link*

![V3Pro 2000 Deluxe logo]

V3Pro 2000 Deluxe provides useful tools in the **Tools** and **Web Link** menus.

Tools
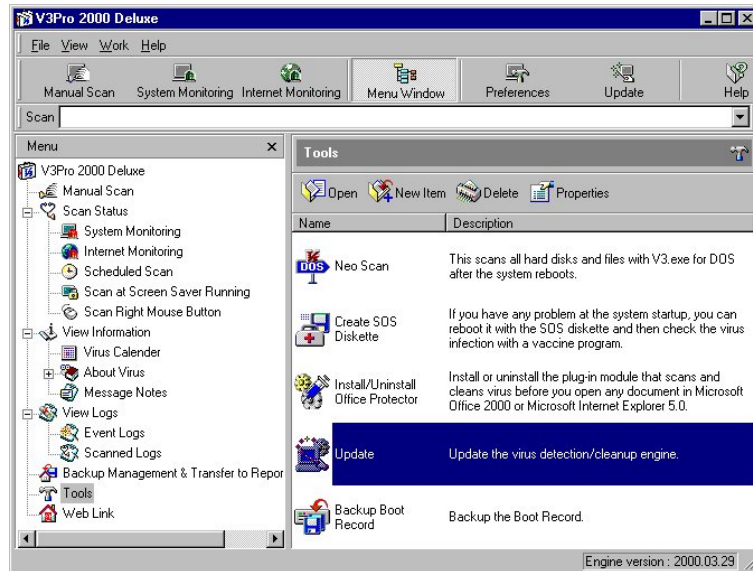
The Tools menu includes Noe Scan, Create SOS Diskette, Install/Uninstall Office Protector, Smart Update, and Backup Boot Record

Web Link
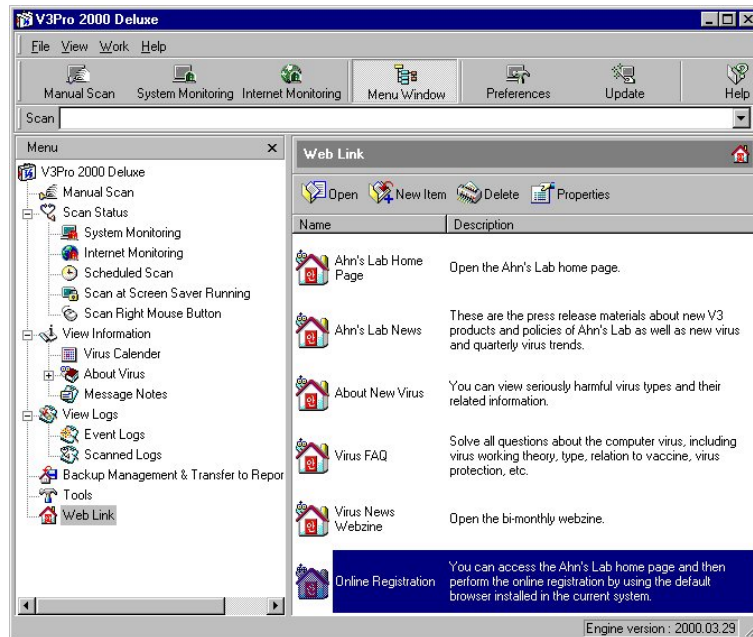
The Web Link menu allows you to access the Ahn's Lab web site, providing Ahn's Lab Home Page, Ahn's Lab News, About New Virus, Virus FAQ, Virus News Webzine, and Online Registration.

With them, V3Pro 2000 Deluxe becomes more powerful vaccine program.   If you take full advantages of them, you can make you system more powerful Anti-Virus protection environment.

You can add or delete each function in the **Tools** and **Web Link** menus.   If you want to use any function, you can select the **Delete** button to delete it.   You can also delete it by clicking and holding the right mouse button to display the shortcut menu and selecting the **Delete** menu.

Smart Update

If you are connected to Internet, you can select **File** - **Smart Update** to get easily and quickly the update service for the latest engine.

How to update the latest engine

1. Select **Tools** - **Smart Update** in the Work window or select **File** - **Smart Update** from the **Menu** to run the Smart Update utility.
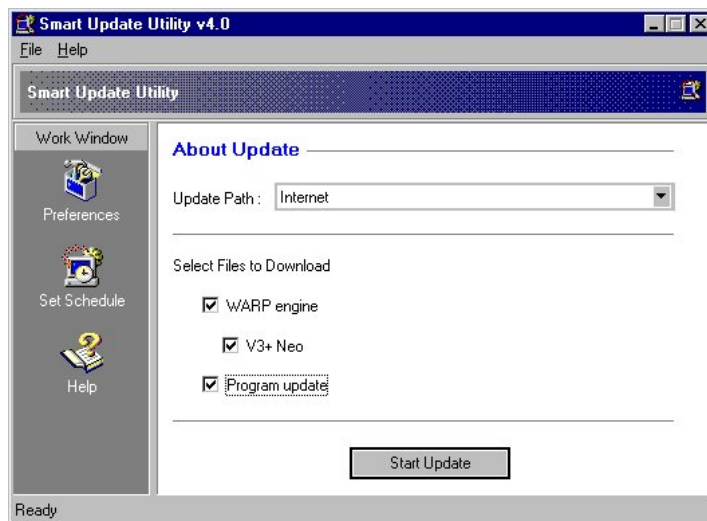
2. Select the update path and file types depending on your system environment and then click the Start Update button to get the latest engine update files.

3. The default engine update folder is 'c:\Program files\v3\update.' If the engine of V3Pro 2000 Deluxe is out of date by over one month, the Smart Update utility icon is displayed, automatically informing that the update is required, when V3Pro 2000 Deluxe runs.
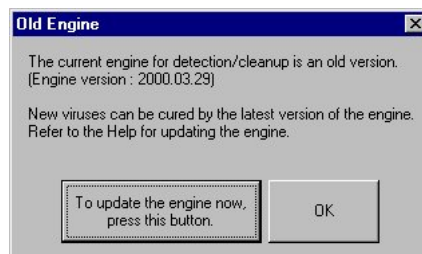
Preferences

After the engine is updated, specifies if you can open the message automatically or not.

General Preferences

This allows you to specify if the message is automatically opened after the update is completed or if the system is used as the update server.

- ■ **Auto-open message after update** - If this option is enabled, the document file provided with the engine is automatically displayed.
- ■ **Use this system as the hands-free update server** - If this options is enabled, the system can be used as the updated server.
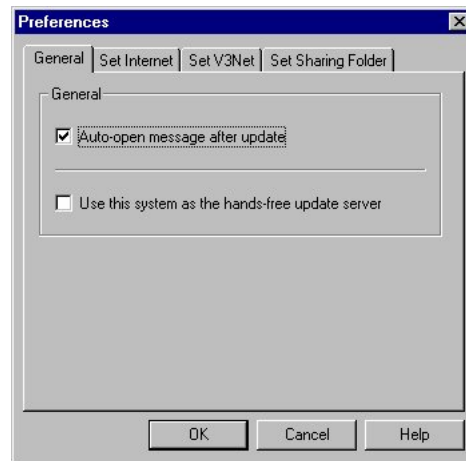
If this is not specified README.TXT file will not be displayed on the screen even after the update is completed.

Set Internet

Use one of the following update servers to get the update service:

VPro 2000 *Deluxe*
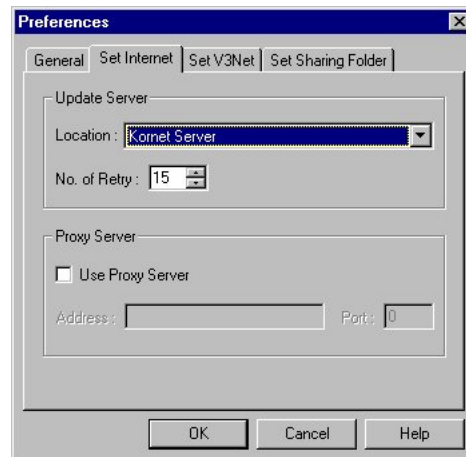
- Kornet server
- Shinbiro server
- Bora Net server
- I-Net server

Select the fastest server among the above ones to get the update service. This is available only if you are connected to Internet.

If the proxy server is used, select **Use Proxy Server** and then enter the address and port number of the proxy server.

Set V3Net

This method provides the update service from V3Net for server installed in the same segment of the network. But this method is disabled if V3Net is not installed or your system is not connected to network.
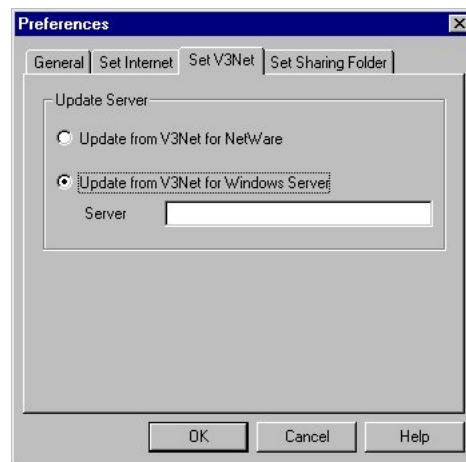
Set Sharing Folder

You can set this option by typing the folder name to be shared.

Enter the folder name to be shared. This also provides the update service directly from the sharing folder that includes the engine update files in the networked drive or from the specified local drive (for example, A, C, or etc.).

Set Schedule

Set Schedule allows you to specify an update method and a scheduled time.
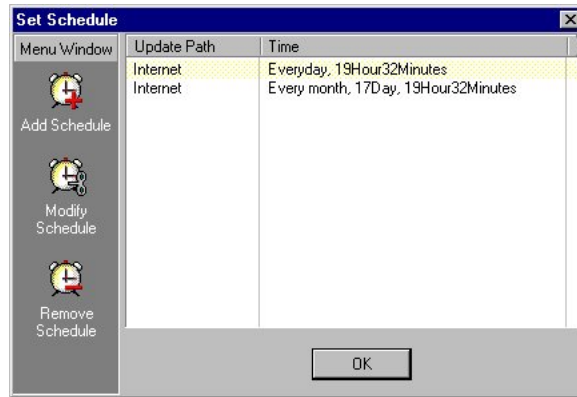
- ■   **Add Schedule** - To schedule Smart Update, click the **Add Schedule** button to add the schedule.   The update path can be specified among Internet, V3Net, or Shared Folder option.   The schedule time can be specified among Everyday, Every Week, Every Month, or Custom option.
- ■   **Modify Schedule** - When the schedule scan to be modified is selected, The **Set Scheduled Scan** dialog box appears. Select the scheduled scan to be modified and then click the **Modify Schedule** button to display the Set Scheduled Scan dialog box. Modify the items you want and then click the **OK** button.
- ■   **Remove Schedule** - Select the scheduled scan to be removed and then click the **Remove Schedule** button.

If you click the **Add Schedule** button, the following dialog box will be displayed.
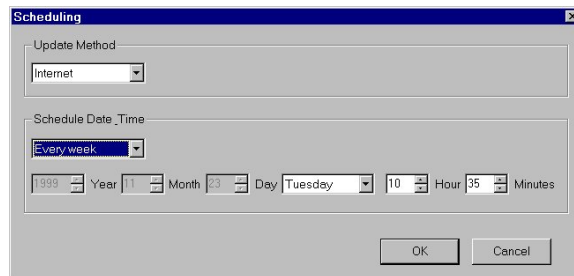
You can set the update method by using **Internet**, **V3Net**, or **Sharing folder**.

The schedule time and date can be specified by selecting Everyday, Every Week, Every Month, or Custom.

Neo Scan

Neo Scan scans all hard drives with V3+ Neo before Windows restarts after you force to exit the current running Windows system and then boot the system in DOS mode.   The full protection from virus is guaranteed, especially if the files that the Windows system uses are infected.   Select **Tools** – **Neo Scan** and then the following message box prompts to ask you to run Neo Scan.
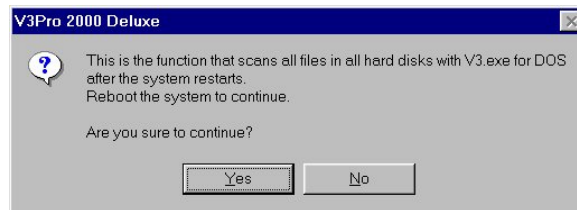
Backup Boot Record

The Backup Boot Record program allows you to backup or save the boot record data when a new boot virus is suspiciously detected or when the analysis on the boot record data is needed.

With this program, you can detect a new boot virus as a sample when your system is infected by it. It is recommended that you should backup the boot record when your system operates normally. You can also use it as a reference data and restore the previous boot record when it is corrupted.

You can click **Tools** - **Backup Boot Record** in V3Pro 2000 Deluxe to display the **Backup Boot Record** dialog box.

The **Backup Boot Record** dialog box consists of two windows.   From the left window you can choose a drive to backup; and you can select a folder or folders from the right window.   The default drive to backup is set to C.   The folder to be saved is set to the floppy disk drive A in default.   If you want to backup the boot record in the floppy disk drive, check in the box next to the floppy disk drive icon.   If you don't want the boot record in your hard disk drive to be saved, you should check out the box next to the hard disk drive icon.   In the same way, you can select or deselect a folder or folders.

You specify the drive to backup the boot record and the folder to save and then click the **Backup Now** button to start the backup.   The dialog box indicating that the backup is completed will appear.
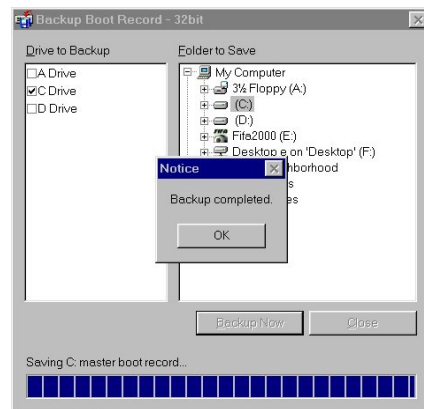
When you click the **OK** button and then press the **Close** button, you can go to the previous screen.

You can also select **Work** - **Tools** - **Backup Boot Record** from the main menu to backup the boot record.

![V3Pro 2000 Deluxe]

Creating SOS Diskette

You can select **Tools** - **Create SOS Diskette** to creat a bootable diskete for the emergency use.   In this case, a format-free diskette should inserted in the drive A.

Click the **Start** button in the **Format** dialog box and click the **Close** button after formatting is complete.   Then the system files are tranferred to the floppy diskette.
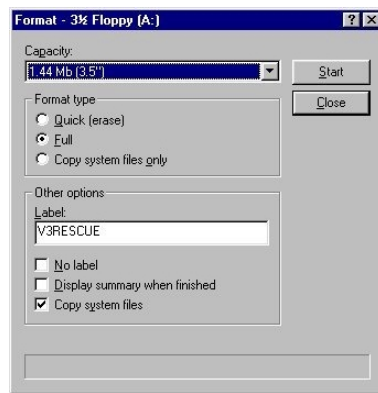
When SOS diskette is created, `V3RESCUE.EXE` file is copied to the diskette.

This is a utility that automatically copies the boot record in the SOS diskette to hard disk and helps you to boot the system when the boot record in the hard disk is corrupted.   (Creating SOS diskette is not available in Windows NT Workstation.)

> *Note*:   *If the boot record in the system' is changed by the hard disk format after the SOS diskette is created, the data in the boot record may be different from that of the system boot record when the SOS diskette was created.   If the old boot data of SOS diskette is discarded or overwritten, the system may have a critical problem.   Please be careful when you use the* `V3RESCUE.EXE` *program.*

Office Protector

Office Protector diagnoses and cleans any virus infected when you open any document, download, and open any OLE file in Microsoft Office 2000 and Microsoft Internet Explorer 5.0

If you want to install or uninstall the plug-in for Microsoft Office 2000 or Internet Explorer 5.0, select **Tools** – **Install/Uninstall Office Protector**.   Double-click the button, and then the following dialog box will prompt to ask you to install or uninstall this plug-in.

If you want to uninstall this plug-in, double-click the **Install** button; and if you don't, double-click the **Uninstall** button.

Web Link

You can select **Web Link** from the menu to see the toolbar that allows you to access the Ahn's Lab web site: Ahn's Lab Web Site, Ahn's Lab News, New Virus Information, Virus FAQ, Virus News Webzine, Online Registration, etc.. You can add or delete each function in the Web Link menu.   If you want to delete any function you don't want use, you can just select the **Delete** button to delete it.

- **Ahn's Lab Home Page -** This menu allows you to link to the Ahn's Lab web site.
- **Ahn's Lab News -** You can view press releases provided for media about New Virus, Quarterly Virus Trends, New V3 Product Release, and Ahn's Lab Policies.
- **About New Virus -** This is about Information on viruses registered in the warning list of new virus.   You can also get the information about the virus type that does many harms and has a critical symptom.
- **Virus FAQ -** Virus FAQ answers the questions on computer viruses, including virus working mechanism, virus type, relation to vaccine application, how to protect from virus, etc..
- **Virus News Webzine -**You can read Ahn's Lab Virus News, a bimonthly webzine, published by Ahn's Lab.
- **Online Registration -**You can complete the online registration to get the full customer support.

Appendix

V3Pro 2000 *Deluxe*

Five Tips for Virus Protection

As years go by, the increasing computer viruses are very hard to be fully cleaned with the vaccine program only. The most important is to protect against the infection with viruses, not to clean the file after infection. Only if you observe the following guidelines, you can protect most harmful damages from virus.

1. Use the legal products only rather than the illegal ones.

2. Backup randomly your important programs and data

3. When you use a new program, scan your system with the latest version of a vaccine program and scan all disks regularly.

4. When you use a shareware or free software, copy it from your computer-savvy friends who have used it for long time and use it.

5. Be prepared to use an uninfected and clean DOS diskette with the tap write-protected.

Glossary

Back Door

A program code that is a blind spot of the system security intentionally left by a system designer, or an administrator, and inserted into applications or operating systems.   Back Door allows accessing applications or system without a normal procedure of the user authentication for the system access. The reason why this kind of the security failure is left is not always malicious.   In case, a code that allows a special account may be inserted in the operating system or applications in order for a field service engineer or a maintenance programmer of system provider to use.   This Back Door is also used as a back door to save the authentication and setup time for the developer in debugging.   It can be very dangerous only when an unconscionable programmer tries to access the system with an unauthenticated account, or only when the back door is found by another user though it is not deleted after the development is completed.

Back Orifice

Back Orifice (BO) is the program that a hacker group, "Cult of Dead Cow (cDc)" in Las Vegas, developed and distributed last July.   It is a hacking tool that allows to remotely control the computer of another user over Internet (TCP/IP).

Because Back Orifice allows a hacker not only to manipulate files in a remote computer but also to control with more rights than those of the computer owner, much attention is required.   In addition with Back Orifice, it is possible to manipulate files (deleting, copying, and moving files, searching a file or a directory, creating and deleting a directory, compressing and decompressing files, etc.) or get the system information.   Furthermore, it is also possible to capture the screen shot of the contents a user types and the password, save them to a file, intercept it to the hacker's computer, or reboot the remote computer.

Back Orifice has no self-replication as virus does but does very many damages to your system if you are absent-minded.   V3 product series classifies this as a Trojan Horse and diagnoses it as "Back Orifice Trojan" to delete.

Boot Virus

When a computer starts, the boot record in its hard disk is first accessed. The Boot Virus resides in this area.   Brain Virus (first detected across the world) and Michelangelo Virus belong to this kind of virus.

Boot/File Virus

A virus that infects both boot record and files: for example, Natas Virus, One_Half Virus, Tequila Virus, etc..

Computer Virus

It is defined as "an intrusive program that copies itself to other programs by stealth," more correctly, "a combination of commands that transform computer programs or executable files and copy themselves or their species to them." The reason why it is referred to "virus" is that a computer virus has a command that copies itself, as does a virus has a heredity that replicates itself. Therefore, "Computer Virus Program" is more correct definition.

Encryption Virus

A virus that encrypts a part of the program or the whole program not to be diagnosed by a vaccine program: for example, Cascade Virus, Slow Virus, etc..

File Virus

A virus that infects common files. It usually infects such COM or EXE as Executable File, Overlay File, Device Driver files, etc..

Hacker

It is originally referred to the person that tries to know the internal system architecture and the operating theory and is familiar to computer and communication. But in the earlier 1990s, it is referred to the intruder or the destroyer that unauthorizedly intrudes into other computers to view, forge, or destroy data. In recent, it is used as a term that refers to the persons who are likely to commit a cyber crime over Internet.

Hacking Version

Hacking Version is a program that has never been developed by a developer or a development company. When Hacking Version is loaded, it may do harm to a user through an abnormal operation, like deleting programs or formatting hard disks. If you want not to be damaged by the Hacking Version of V3 product series, be sure to check the following items.

You should download and use the necessary files only from the Customer Forum of Ahn's Lab in each online BBS (Hitel, Chollian, Nownuri, and Unitel). If the version uploaded in the public downloads of the Customer Forum is higher than the official version, it is definitely a Hacking Version.

Be sure not to use V3+ compressed with RAR or ARJ compression utility, not PKZIP.

When the file with PKZIP compressed is decompressed, scan with the option, -AV, and check if the following message is displayed in the last line. If not, don't use it and report the source of the file to Ahn's Lab as well. (Only if the file is decompressed with WINZIP, the following message will not be displayed.)

> "Authentic files Verified! # SUR710
> Dr. Ahn's Anti-Virus Laboratories, Inc."

Hoax Virus

A virus that refers to the name of a virus that doesn't actually exist or the name of Trojan Horse, displaying a warning-like message, a hoax letter like a fortune letter that lets you send the received message to others as many as possible.   The content of the letter usually contains an intimidating content that all files in your system will be deleted if a letter with a specific subject is received.   The message that you don't read a letter with the subject, like "Returned or Unable to Deliver" or "Penpal Greetings!" has the same symptom.   Because these messages are plausible to use technical terms, they are apparent to have a considerable reason, but just a hoax.   Don't hesitate to delete this kind of messages.

Linking Virus

A virus that changes the starting point of the program saved in the program folder into that of the virus program without infecting directly the program.   So the virus program first run instead of the original program.   After the program is loaded, the original program runs later so that a user cannot recognize the virus. A typical example is Byway Virus.

Logic Bomb

Logic Bomb runs a command inserted in the routine if a logical condition that the routine defines is met in the computer that becomes an object of the illegal action by inserting the disguising routine in the normal program.   For example, at a given time, a malicious person can change the way that the computer calculates the interest or the interest rate to transfer the balance sum to one's own account. In addition, if a given condition takes place, Logic Bomb deletes the default files required in operating the computer to stop it. In another case, if a malicious user uses the computer of his antagonist, he can delete all files in the computer with Logic Bomb.

Macro Virus

A virus that has rapidly spread across the world since last year.   Developed using the macro function in the Microsoft Office applications, it is getting spread and increasing its severity.

Non-TSR Virus

A virus that runs once and then disappears in the memory: for example, Taiwan Virus, Vienna Virus, etc..

Overwriting Virus

A virus that overwrites itself to the original program.   A general overwriting virus exists before the original file.   When the file infected with this type of virus is tried to run, the virus first runs instead of the original program, which is replaced with the infected program so that the recovery may not possible.   Only, the overwriting virus exist in the area that the program doesn't use, the execution

of the program is never affected and the infected program is also restored by a vaccine program.

Polymorphous Virus

A kind of the encryption virus that always makes the part to decrypt changed as it infects, unlike the simple encryption virus that has the same part to decrypt. There is a confusing polymorphous virus that replicates more than one million polymorphous viruses.

Parasitic Virus

A virus that doesn't destroy the original program and is attached to before and behind the program.   The original file and the virus coexist in the file infected with this virus and its size becomes increased.   So a user cannot usually recognize the existence of this virus because the virus runs and then the original file runs.   Most file viruses are applied to this type.

Possible Virus

When low-level format or hard disk setting is tried in some main boards, a message, "possible virus," may be displayed.   The reason why this message is displayed is that the option related to "Boot Record virus protection" (this option may be different from board to board) is set to enable in CMOS Setup.

This option gives a warning to user when a virus enters into the boot record, that is, when the boot record is externally changed.   If this option is set to "Disable" or "Normal," this message will not be displayed any more.

Primitive Virus

A first-generation virus that is first present.   Its architecture is very simple: for example, Stoned Virus, Jerusalem Virus, etc..

Spawning Virus

A virus that doesn't directly infect an EXE file and makes another COM file with the same name.   If COM and EXE with the same names exist in the same folder and you run the file, the COM file first runs.   So it is as if the EXE file is directly infected. A typical example is AIDS II Virus.

Stealth Virus

A virus that disguises itself and uses a variety of techniques to tell a user or a vaccine program false information.   It resides in memory and appears not to increase the size of a file.   When a vaccine program reads the infected part, the stealth virus shows the information before the infection so that it deceives a user or a vaccine program as if a virus appeared not to exit.   For example, Brain Virus, Joshi Virus, 512 Virus, 4096 Virus, etc..

Trojan Horse

It is a destructive program without self-replication.   More corruptly, it is defined as "a combination of commands that disguise themselves to a computer program but don't replicate themselves."

It is different from a bug, a programmer's error, in terms of intentional purpose and from a computer virus in terms of copying itself to other files.   For example, when a program runs, some files in the hard disk are deleted. In this case, it is considered as a Trojan Horse rather than a computer virus.

TSR Virus

A virus that stays in the memory and continues to infect the running files: for example, Jerusalem Virus, Dark_Avenger Virus, etc..

Worm

A program that doesn't do harm to other programs in the computer but continues to replicate itself within a given limit.

Typical worms are HLLC.AIDS_II, HLLC.Even_Beeper, and HLLC.Laufwerk. Nowadays, it is a very serious problem that a new kind of Internet worm (I-Worm) emerges that spreads itself through e-mail messages.   If the Internet Worm is running, it uses an e-mail to spread itself, a different way from the existing worm or virus, resulting in a serious harm to other users or computers.

Excel Macro Virus

A virus developed by using the macro function in Microsoft Excel, a worldwide standard spreadsheet infects Excel documents.   Laroux, ExcelMacro.Extras, ExcelMacro.VCX, and ExcelMacro.Compat are typical.

Word Macro Virus

A virus that infects Microsoft Word documents.   Word97Macro.CLASS Virus, a typical Word Macro Virus, uses polymorphous and disguising techniques and displays a message when Word is exited.

Windows Virus

A Windows operating system-based virus.   WinVir first detected in 1992, Marburg and CIH Virus are typical.

Windows Virus is very complex for a beginner to cure, compared with DOS viruses.   When an infected file is running under Windows, it cannot be cured. After it is closed, it can be safely cleaned.

Frequently Asked Questions

Q *1. After the "Delete If Incurable" option is specified In V3Pro 2000 Deluxe, are the deleted incurable files left in the Recycle folder?*

A If the option "Delete if incurable" is selected, the deleted files are completely deleted, not in the recycle folder.   With this option, the file name attar being deleted is the same but its size may be 0 byte.   This is a phenomenon that appears when the file is in use or encrypted, but it cannot be curable.   If the backup file exits, try to clean it to use.

Q *2. When I type a folder name to be scanned directly in the field of the Quick Scan bar in V3Pro 2000 Deluxe, scanning doesn't properly work.*

A Check if there is a problem in typing method.   When the object to be scanned is typed in the Quick Scan bar, the symbol that separates each object is a space.   In addition, multiple folders are type with the space separated but long folder name or folder with space is typed with the symbol " " separated.   For example, type the following example.   (For reference, because the object folder is not scanned with its sub folder or folders, use the option /s to include them.)

Q *3. I am using a legal copy of V3Pro 2000 Deluxe and have a copy V3+Neo freely provided by an ISP after I subscribed an Internet service. Which product is better for me to use and how can I use it?*

A V3+ Neo is a vaccine program for DOS.   If you use a legal copy of V3Pro 2000 Deluxe, you can use the V3+Neo program for DOS already included in it.

V3+ Neo you have freely get from any Internet Service Provider (ISP) is a shareware program that doesn't support some functions, like Diagnose or Clean Macro Virus.

Q *4. I inserted the V3Pro 2000 Deluxe CD-ROM in the drive but auto-installation didn't work.   Why doesn't it work despite AUTORUN.INF is in the CD-ROM?*

A V3Pro 2000 Deluxe supports to run the auto-installation function, that is, AUTORUN.   If AUTORUN doesn't work, check the following procedures. Click **My Computer** in Windows and hold the right mouse button.   At this moment, click **Properties** – **Device Manager** – **CDROM** to display the installed drive name.   Double-click the installed drive name, click **Properties** – **Settings**, and then check if "Notice at AUTORUN" is enabled.   If not, it will not run not only in V3Pro 2000 Deluxe but also other programs.

First, if "Notice at AUTORUN" is enabled and the system starts, the AUTORUN may run.

If you don't want AUTORUN to work, press and hold the Shift key to insert the CD-ROM and then it doesn't work.

Q *5. Run Tools - Neo Scan to scan for virus and then return to Windows.*

A This is a phenomenon that appears when autoexec.bat and autoold.bat, the files temporarily used for Neo Scan repeatedly runs each other.   After the system boots and before Neo Scan runs, press the Shift or Ctrl-Break key so that the bach file cannot be executed, and then rename autoexec.bat and autoold.bat or move them to another folder and delete them so that the system can boot normally.

Q *6. When update the engine, a message, "No V3 product installed," is displayed on the screen.*

A When you update the engine, a message, "No V3 product installed," may be displayed.

This message is displayed only if the `C:\V3AHN.CFG` file is deleted or only if the file is corrupted not to perform the engine update.   Run V3Pro 2000 Deluxe and then select **Help** – **About V3Pro 2000 Deluxe**. The message that the location displaying the user and the product number is corrupted will be displayed.

In this case, because the Windows Uninstall function may not remove the installed vaccine program, remove manually the folder in which the vacccine program is installed and then reinstall the program.

Q *7. What is the engine update file?*

A The "engine update file" is the file that allows to use the latest version of the Anti-Virus program that includes the diagnosis/cleanup function for computer viruses.   With this file, the time to download the whole file can be saved whenever updating.   For reference, the engine update file is provided as the name, "V3U0915W.EXE," where the number 0915 means the engine update file that created on the 15th of September.   Therefore, its name is changed in the next engine update file.

Q *8. How do I install the engine update file?*

A How to install is as follows:

1. Download the engine update file (for the user who uses the Smart Update utility over Internet, skip the next step to continue.)

2. Run the downloaded file.

If the engine is update into the latest version when V3Pro 2000 Deluxe is loaded, the update is completed.

Q *9. I tried to clean virus with V3+ Neo but a message, "Unable to write to the disk," is displayed with the cleanup stopped.*

This kind of message is displayed when the Windows 98 or 95 operating system is infected with a boot virus and then you open the DOS window to clean the virus with V3+. Thre reason why this kind of error message is displayed is that Windows 98/95 itself manages the data of the boot record. For this reason, a normal cleanup cannot be completed. In this case, reboot the system with the uninfected and clean bootable diskette, lower than DOS version 6.2, and then clean the virus.

Q *10. The base memory in the system is not 640 Kbytes. Is it infected with a virus?*

A In general, the base memory of computer has 640 Kbyte. When the system is infected with the boot virus, its size is decreased in most cases. But there is a case that the base memory is not 640 Kbytes in size though the system is not infected with the boot virus. Some computers using AMI BIOS has 639 Kbytes of the base memory and other computers equipped with PCI bus has also the same. In another case, the size of the base memory may be changed depending on the Windows environment.

Q *11. For what is V3BACKUP.EXE used?*

A The `V3BACKUP.EXE` file is a utility that allows you to capture a sample in the boot record. In general, most undoubtedly consider the virus infection if the size of the base memory is not 640 Kbyte. Boot the system in the drive A: with the uninfected and clean bootable diskete and check if the size of the base memory is the same as the that when the system is booted in the drive C:. If it is the same, you feel relieved. If not, you can be suspicious of the virus infection. Backup the infected file by using `V3BACKUP.EXE` and send the data in the boot record to Ahn's Lab. If you specify the drive and then run `V3BACKUP.EXE` (for example, `V3BACKUP.EXE`), the following files are created in the current folder:

File	Description
MBS.V3	Master boot record in the hard disk
DBS.VS	DOS boot record in the hard disk
FBS.V3	Boot record in the floppy diskette

If the boot record in the hard disk is suspicious of being infected, send `MBS.V3` and `DBS.V3`; if the boot record in the floppy diskette is suspicious, send FBS.V3 to Ahn's Lab.

Q

A

12. How can I clean a Macro Virus"

Macro Virus developed by using the macro function in Microsoft Office applications are continuously detected across the world.   More than 2,000 have so far been found and continues to be found in the future.   The most popular types that have so far been detected are two found, infecting in the data files of Word and Excel.   It is expected that polymorphous viruses be continuously found in the future.

If a document is infected with the macro virus, you can clean the virus by deleting the appropriate macro.   But if you don't scan the memory or share the infected file with others, it is highly possible for it to spread.

Q

A

13. The name of a virus is displayed as numbers.

When the V3 product series diagnoses virus, its name may be displayed as numbers.   This kind of symptom results from the fact that there is no `V3WARPN.V3D` file in the folder in which the V3 product series is installed or in the diskette in which `V3.EXE` is loaded.   Most people use `V3.EXE` for DOS only in the diskette.   Be sure to copy `V3WARPN.V3D`, `V3WARPD.V3D`, and `V3WARPA.V3D` files to use as well.

Q

14. When I installed V3Pro 2000 Deluxe, I created the SOS diskette. When one of my friends booted his computer with the diskette I created, an error occurred.

A

The SOS diskette has information of the hard disk in the system that it is created to make it bootable for the preparation of emergency.   Therefore, be sure to place in the safe location the diskette with the write-protected tab attached.   If the diskette is only for the boot, there is no problem.   But if the `V3RESCUE.EXE` is loaded, your friends' system may be changed and not bootable because the boot record data of your system is automatically copied to another hard disk.

Q

15. I have my computer infected with the Back Orifice Trojan virus, but it is not cleaned.

A

The virus whose name includes "Trojan," like Back Orifice Trojan, doesn't infect other files and is rather a Trojan Horse program that prevents a user from working.   To prevent damages from this program, diagnose and clean it with V3 product series.   In addition, though a spawning virus whose name starting with HLLC also doesn't infect directly other files, delete it immediately at its detection.

V³ Pro 2000 *Deluxe*

About V3+ Neo for DOS

Programs

V3+ Neo contains `V3.EXE` and `V3BACKUP.EXE` programs.   `V3.EXE` is a program that diagonoses and clean viruses dected.   `V3BACKUP.EXE` is a utility that allows you to simply get a sample of the boot record infected with the boot virus.

How to use V3.EXE (for detection and cleanup)

Basic Usage

V3.EXE is a program that diagnoses and cleans virus detected.   For example, if you want to scan the drive C:, type the following command in the DOS prompt:

`C:\>V3`

Options

The options you can use in loading `V3.EXE` are as follows:

V3 [drives][paths][files][options]

Option	Description
/L	Set a language
/L:E	Set the language to English
/L:K1	Set the language to Korean combination code
/L:K2	Set the language to Korean KS complete code
/F	Scan multiple floppy diskettes
/S	Scan sub directories or folders
/A	Scan all files
/U	Set auto-cleanup
/?	Set the on-screen print how to use

If no option or "`/?`" option is specified, the memory will be, by default, scanned and cleaned and the program itself will be scanned and cleaned and then shows how to use.

If only the drive is specified, the memory and the program itself will be first scanned; for the floppy disk, the boot sector will be scanned.   For the hard disk,

the mater boot record and the DOS boot record wil be scanned and then all execution files in the drive will be scanned.

If the pathname is specified, all execution files in the directory or folder will be scanned.   You can use both full pathname (including the main directory) and relative pathname (based on the current directory or folder).

If filename is specified, only the file will be scanned.

You can use the wild card ("?" or "*") in file name and extension.

Using V3BACKUP.EXE

How to get the boot virus

V3BACKUP.EXE is a utility that you can easily backup the disk information and get the boot virus.   When your system is infected with a new boot virus, boot it with the uninfected and clean bootable diskette and then use the V3BACKUP.EXE utility to save the infected boot record to a file and to transfer to Ahn's Lab.

If you backup the boot record though the system is not infected, it will be a useful reference when the boot record is restored.

How to use

If you type the following example in DOS prompt, you can save the master boot record of the specified drive (A:, or C:) to a file in the current directory.

C:\>V3BACKUP C:

If you run V3BACKUP.EXE, you can use the option "/?" only.   If you did not specify the drive or you used the option "/?," you can view how to use.   To get the boot record, you should specify the drive name.   Get the boot record and save it to a file as follows:

Boot Record	Filename
Floppy disk boot record	FBS.V3
Hard disk master boot record	MBS.V3
Hard disk MS-DOS master boot record	DBS.V3

In addtion, if you specified the unbootable drive, that is, RAM drive, CD-ROM drive, or network drive, an error message will be displayed and the file will not be created.