The Doctor AntiVirus for Windows 95

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Checking all file types for viruses

File-infecting computer viruses are able to infect only executable files, which are those with file extensions of .EXE, .COM, .OV?, and .SYS.   For this reason, The Doctor AntiVirus Scanner, by default, checks only these files for viruses.   It is normally absolutely unnecessary to check all file types for viruses; doing so slows down the checking process dramatically and increases the number of false positives (misidentifications of viruses). However, there are two situations in which it may be desirable to check all file types:

1. **If a widespread virus outbreak has occurred,** i.e., viruses have been found in a large number of executable files, you may wish to perform a check of all file types.   Finding a single virus is not cause to perform a check of all file types.   A small number of viruses are able to attach themselves to data files (non-executable files).   This may lead to lost or corrupted data in the file, but the virus in this file would pose no threat to the rest of the system since it cannot replicate.   The usefulness of checking all file types in this situation would be to help locate files corrupted or damaged by the virus, but because of the way viruses attach themselves to data files, not all such virus-corrupted data files will be found by The Doctor AntiVirus Scanner.   Virus-corrupted data files may or may not be usable.   If backup copies of the file are available, it is best to delete the infected file and restore it from the backup.   If a backup copy is not available, it is perfectly safe to leave the data files on the machine, but do not be surprised if the machine hangs up or acts funny when the file is accessed.

2. **If any executable files have been renamed** and have different file extensions from the ones listed above, and if there is the possibility of the files being re-renamed such that they once again have an executable file extension, you may wish to check them for viruses also.   (This unusual situation should hardly ever arise for the average user).

　　　To check all file types, select **Check Options** from the **Options Menu.**   In the **Advanced options** box, click on **Check all file types.** Clicking the **OK** button will then begin the virus check of all files in the selected path.

Changing the log file name or folder

To change the name and/or folder of the log file, which by default is DOCWIN.LOG in the folder in which The Doctor AntiVirus for Windows 95 files were installed, select **Options** from the menu bar.   This will bring up the **Doctor AntiVirus Check Options dialog box**. In the **Check results** group, the **Log file** text box shows the present folder and file name for the log file.   Change the folder or file name by highlighting the text with the mouse cursor and overwriting it.

Checking for viruses on a specific drive

To check a specific drive for viruses, click on the **Check Drive** button, or select **Drive** from the **Check menu**.   This will bring up the **Doctor AntiVirus- Drive to Check** dialog box, which contains a list box presenting the drive letters of all available drives.   Click on the letter corresponding to the desired drive, and then the **OK** button to initiate the virus check.   The Doctor AntiVirus Scanner will then check those parts of the drive that have been selected for checking under **Check Options**.

Checking for viruses in memory

Since most computer viruses place themselves in the machine's memory area in order to replicate, The Doctor AntiVirus Scanner will, by default, automatically first check memory every time the program is started.   To have the Scanner avoid checking memory the next time it is started, unmark the **Check memory** check box in the **Advanced options** group of the **Check Options** dialog box under the **Options menu**.

Checking for viruses in a specific folder

To check for viruses in a specific folder, click on the **Check Folder** button on the Main screen, or select **Folder** from the **Check menu**.   This will bring up the **Doctor AntiVirus-Folder to Check** dialog box.   The full path name of the folder presently selected for scanning will appear in the text box at the top of this dialog box.   Click on the letter of the desired drive in the list box in the lower-left corner of the dialog box, and double-click on the name of the desired folder in the larger list box above.   The text box at the top of the dialog box will change to reflect the folder currently selected for checking.   Click the **OK** button to begin the virus check.

Checking for viruses in all subfolders

When a drive or folder is selected for checking, The Doctor AntiVirus Scanner will, by default, check all subfolders of that folder for viruses.   To avoid checking subfolders, unmark the **Scan subfolders** check box in the **Advanced options** group of the **Doctor AntiVirus Check Options** dialog box, which is located under the **Options menu**.

Configuring checking options

Select **Check Options** from the **Options menu** to bring up the **Check Options** dialog box.   This dialog box allows you to configure what will be checked, what actions will be taken by the program if a virus is found, and the name of the log file generated by the program.

If virus found options:

   Three mutually exclusive choices appear in this group.   If **Report only** is selected,   The Doctor AntiVirus Scanner will identify the name of the virus and the place where it was found but will make no effort to remove the virus.   This information will be written to the log file.   If **Prompt before cleaning virus** is selected, the program will pause when a virus is detected and ask the user if it should try to remove the virus.   If **Automatically clean virus** is selected, the Scanner will attempt to remove any viruses it encounters.   A message will appear indicating whether the attempt was successful or not.   Unfortunately, not all viruses can be cleaned; some file-infecting viruses completely destroy the file which they have infected.   In this case the file must be deleted in order to eliminate the virus.

Advanced Options:

   This group contains three options pertaining to what will be checked by The Doctor AntiVirus Scanner.   If **Check subfolders** is selected, all subfolders beneath the presently selected parent folder will be checked for viruses.   If **Check all file types** is selected, all files, regardless of their file extensions, will be checked for viruses.   (This is normally not necessary; see Checking all file types for viruses).   If **Check memory** is checked, the Scanner will check memory for viruses each time it is started.

Check results:

   The log file stores information about the most recent virus check performed by The Doctor AntiVirus Scanner.   The default name for the log file is DOCWIN.LOG, and its default location is in the same folder from which The Doctor AntiVirus for Windows 95 is being run.   To change the log file name or its location, highlight the text in the **Log file** text box and enter the desired file name and path.   To change the **Maximum size of log file**, use the arrow icons next to the number, or highlight the existing number with the mouse cursor and overwrite the existing number   (the size is expressed in kilobytes).

Reset to Defaults:

   Clicking this button will restore the default virus checking configuration.   By default, the Scanner will check memory and all executable files in the presently selected folder and its subfolders, and viruses will be reported and written to the log file, but not removed.

Exiting The Doctor AntiVirus Scanner

The recommended method of quitting The Doctor AntiVirus Scanner is to select **Exit** from the **File menu**.

Printing the Log File

To send a copy of the Log file to the printer, select **Print Log File** from the **File menu**. This will bring up a standard print dialog box.   Select the desired options and click the **OK** button to begin the printing.

Removing a detected virus

In addition to detecting viruses, The Doctor AntiVirus Scanner is able to clean (remove) many of the viruses it finds.   If you wish for the Scanner to clean any viruses it finds, select **Automatically clean virus** in the **If virus found** group of the **Doctor AntiVirus- Check Options** dialog box in the **Options menu**.   With this option selected, the Scanner will automatically attempt to remove any virus that it finds.   When a virus is detected, a message will be displayed showing the name of the virus, where it was found, and whether or not it can be cleaned by the Scanner.   When the virus clean is attempted, a message will be displayed telling whether the clean attempt was successful.

If The Doctor AntiVirus Scanner cannot clean the virus:

If the virus is a boot sector-infecting virus, see <u>Removing a boot sector virus</u>.

If the virus is a file-infecting virus, see <u>Removing a file-infecting virus</u>

Getting technical support

See **About** in the **Help menu** for information about technical support for this product.

Viewing the known virus list

To see a list of the viruses which the present version of The Doctor AntiVirus Scanner will detect, select **Known Virus List** from the View Menu.   It will take the program a few seconds to generate the alphabetical list of viruses.   Use the scroll bar at the right edge of the list box to examine the virus list

The names are those used by Thompson Network Software.   There are no universally recognized conventions for the naming of viruses;   five different anti-virus products may each identify the same virus by a different name.   To further complicate matters, the same name may be used for different viruses by different anti-virus products.

In the known virus list, following the name of the virus appears, in parentheses, any other commonly used names for the virus.   These alternate names, called "aliases", may be used as the primary name by other anti-virus products.

Thompson Network Software updates The Doctor AntiVirus for Windows 95 monthly to include signatures for the newest viruses we have received.   The updates are available to registered users via our BBS (See Getting Technical Support).

Checking for viruses on all hard drives

To have The Doctor AntiVirus Scanner check all local hard drives for viruses, click the **Check All Hard Drives** button, or select **All Hard Drives** from the **Check menu**.   This operation will always check all subfolders on the hard drives, regardless of whether the **Check subfolders** check box has been selected under **Options**.

The Doctor AntiVirus Scanner

The Doctor AntiVirus Scanner is the user-configurable virus-scanning component of The Doctor AntiVirus for Windows 95.   The Doctor AntiVirus Scanner looks for computer viruses in files, boot sectors, and memory areas by searching for distinct sequences of bytes called **virus signatures.**   If a virus signature is found, a virus is probably present.   The Doctor AntiVirus Scanner contains signatures for thousands of known viruses.   To see the names of the viruses found by the present version of The Doctor AntiVirus for Windows 95, select Known Virus List from the **View menu**.

When a virus is found, The Doctor AntiVirus Scanner alerts you of its presence by displaying a message and can, in many cases, remove the virus.

Basic Operation of The Doctor AntiVirus Scanner

Using The Doctor AntiVirus Scanner should be easy and largely self-explanatory for anyone familiar with the standard Windows interface.   The Scanner uses the customary drop-down menus, dialog boxes, and command buttons that are characteristic of the Windows environment.   Rather than presenting the user with a confusing variety of options, the Scanner can be run with just a few button clicks requiring only a minimal amount of explanation.

Just decide what areas you want to check for viruses, and click the corresponding buttons. Click **Check All Hard Drives** to <u>check all hard drives</u> for viruses; click **Check Drive** to check a <u>specific drive</u>, or click **Check Folder** to check a <u>specific folder</u>.   Use the <u>Check Options</u> dialog box to customize the checking process.

By default, the Scanner will check the computer's memory area to see if any viruses are prsent in memory each time the program is started.   Then the boot sectors on either the computer or the diskette, whichever is being checked, will be checked for viruses before files on the selected drives are checked.

If any viruses are found, a message will be displayed identifying the name of the virus and where it was found.   Many viruses can also be <u>removed.</u>

Removing a boot sector-infecting virus

If your computer has a boot sector-infecting virus and The Doctor AntiVirus Scanner cannot clean it, do the following to remove the virus:

1. Boot the machine from a write-protected bootable diskette which is known to be free of viruses.

2. Run the DOCTOR.EXE program from your original Doctor diskette.   This is the earlier DOS version of The Doctor AntiVirus program.   Use the DOS Doctor to remove the boot virus.

Removing a file-infecting virus

If The Doctor AntiVirus Scanner is unable to clean a file-infecting virus, the infected file must be deleted in order to eliminate the virus.   This emphasizes the importance of making regular backup copies of the files on your machine.   If backup copies are available, recovery from a file-infecting virus outbreak will usually be quite simple; just restore the deleted infected files from the clean backups.

The Doctor AntiVirus Monitor

The Doctor AntiVirus Monitor is the real-time virus scanning component of The Doctor AntiVirus for Windows 95.   It is installed as part of the default installation of The Doctor AntiVirus for Windows 95 and will be activated the next time *Windows 95* is started on the computer.   The Monitor watches for viruses in programs and on diskettes as they are accessed by *Windows 95*, and alerts you if one is found by displaying a message.   Also, by default, the program automatically checks the computer's memory area for viruses each time *Windows 95* is started.

When the Monitor is activated, a stethoscope icon will be placed in the *Windows 95* task bar.   The Monitor's real-time virus scanning can be turned off (see below); when it is turned off, the stethoscope will have the red "No" symbol superimposed across it.

Normally the Monitor quietly watches for viruses in the background while you use your *Windows 95* applications, unless a virus is detected, in which case the main window pops up to display the warning message.   However, you can bring up the main window in order to configure the program by clicking on the stethoscope icon.

The Doctor AntiVirus Monitor main window consists of the **last warning message** box and five command buttons: **OK**, **Disable/Enable**, **Repair**, **Options**, and **Help**.   At the top of the main screen appears the version number of the software.

The **last warning message** box shows the last warning message displayed by The Doctor AntiVirus Monitor.   Of course, this box will be empty if no viruses have been found since the Monitor was installed.   The warning message consists of two parts:

1.   The first part identifies the last virus detected by The Doctor AntiVirus Monitor and where it was found.

2.   The second is a user-configurable message.   By default, it reads "A virus has been found in the above location.", but it can be customized to display information about who to contact in case a virus is found, or any other special instructions that may be desirable. See The Doctor AntiVirus Monitor Options for instructions on how to change this message.

The **OK button** closes The Doctor AntiVirus Monitor main window and restores it to the taskbar.

The **Disable/Enable button** toggles the real-time scanning of the Monitor between on and off.   When this button is labelled **Disable**, real-time scanning is **on** and clicking the button will turn **off** real-time scanning.   When the button is labelled **Enable**, real-time scanning is **off** and clicking the button will turn **on** real time scanning.

The **Repair button** will cause The Doctor AntiVirus Monitor to remove the virus (if possible).   (Note: the ability to remove viruses from files is not available in the shareware version)

The **Options button** brings up The Doctor AntiVirus Monitor options dialog box.

The **Help button** brings up the on-line help screen.

The Doctor AntiVirus Monitor Options

Click on the **Options command button** on The Doctor AntiVirus Monitor main window to configure the program.

Objects to check group

Floppy boot records when accessed- if this check box is checked, any time *Windows 95* accesses a diskette, the boot sector of the diskette will be checked for viruses by The Doctor AntiVirus Monitor.

Programs when executed- if this check box is checked, programs will be checked for viruses as they are executed.

Memory during initialization- if this check box is checked, the computer's memory area will be checked for viruses when *Windows 95* is started.

By default, each of these options are turned on.

Customized warning message

If The Doctor AntiVirus Monitor finds a virus, the warning messages will be displayed.   The second part of the warning message is a configurable one; to change it, highlight the text displayed in the **Customized warning message text box** and overwrite it by typing in the desired message.

Click the **OK button** when you are finished configuring The Doctor AntiVirus Monitor Options.   The **Cancel button** closes the Options dialog box without saving any configuration changes.

Uninstalling The Doctor AntiVirus for Windows 95

To uninstall The Doctor AntiVirus for Windows 95 select **Add/Remove Programs** from the *Windows 95* **Control Panel**.   Highlight **Doctor AntiVirus** in the remove list box and then click the **Add/Remove button**.   Once the uninstaller completes The Doctor AntiVirus for Windows 95 will be completely removed from the system.

Viewing the log file

To view the log file, select **Log File** from the **View menu**.   This will bring up The Doctor AntiVirus Check Results dialog box, which displays the log file.

The log file stores information about virus checks performed by The Doctor AntiVirus Scanner, and also records virus detections made by The Doctor AntiVirus Monitor.   Each time the Scanner is run, an entry will be added to the log file whether any viruses were found or not.   For each virus check, the following information will be recorded in the log file:

> The beginning time and date of the virus check
>
> The number of files checked
>
> The number of viruses found
>
> The name of any viruses found and the place where they were detected
>
> The ending time and date of the virus check

Entries in the log file are in reverse chronological order (the most recent entries are at the top of the file).

The log file will grow until it reaches a <u>maximum size.</u>

Changing the log file's maximum size

The log file has a default maximum size of 100 kilobytes.   As new entries are appended to the log file, it will be allowed to grow to the maximum size, at which time older entries will be truncated.   To change the maximum log file size, select **Options** from the menu bar.   In the **Check results** box, change the **Maximum size of file (in Kilobytes)** either by highlighting the existing number with the mouse cursor and overwriting it, or by using the up and down arrow buttons next to the number.   The *maximum* maximum size of the log file is 512 kilobytes.