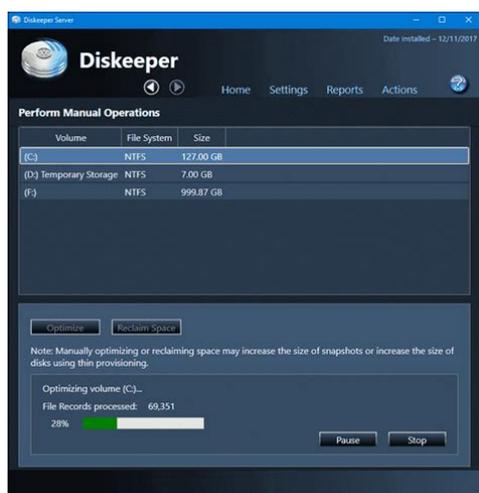


Diskeeper Manual



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the amount of fragmentation on your disk volumes. Chapter 3 gives a brief overview of Diskeeper. Chapter 4 explains the various features of Diskeeper in detail. Chapter 5 presents the theory of Diskeeper operation. http://comfortinnbarrie.com/phpsites/vertical_living/uploads/canon-camcorder-zr800-manual.xml

Appendix A has tables showing the different Diskeeper editions, and the operating systems, features and capacities they support. Appendix B provides answers to frequently asked questions. Appendix C explains how to contact your Executive Software Customer Service Representative for Support Services. Appendix D discusses methods you can use to install Diskeeper networkwide, Appendix E explains how to run Diskeeper as a clusteraware application on a cluster server. The Glossary provides definitions of technical terms used in this manual. Diskeeper version 8.0 continues this tradition with the introduction of an expanded product line with innovative new features and approaches to solving fragmentation problems for everyone, from home users to huge enterprise IT departments. Since the introduction of Diskeeper for Windows NT in 1995, disk capacities have increased significantly, particularly in server environments. Nowadays, it is not uncommon to see disk volumes in the terabyte range approximately 1,000 gigabytes, or approximately a thousand billion bytes with millions of files. Highcapacity disks need a specialized approach to defragmentation, since it can take a typical defragmenter days to analyze and defragment such a disk volume. To address this specialized need, Executive Software has expanded its family of defragmentation products to match the broad range of operating system choices now available from Microsoft, particularly the Windows Server 2003 offerings. Each Diskeeper edition in this expanded product lineup was specifically designed to maximize the potential of the operating systems it supports. This User Manual describes the operation of these Diskeeper editions Diskeeper Professional Edition for desktop systems running Windows 95, Windows 98, Windows Me, Windows NT, Windows 2000, and all Windows XP editions.

Diskeeper Server Web Edition for systems running Windows NT Workstation, Windows 2000 Professional, All Windows XP editions, and Windows Server 2003 Web Edition. Diskeeper Server Datacenter Edition for systems running Windows 2000 Server, Windows Server 2003 Standard Edition, Windows Server 2003 Web Edition, Windows Server 2003 Enterprise Edition, Windows 2000 Datacenter Edition, and Windows Server 2003 Datacenter Edition. Diskeeper Home Edition incorporates simplified controls, and does not support the network defragmentation capabilities available in the other Diskeeper editions. Diskeeper Administrator Edition is not a defragmenter, but an application that provides a single point of control by which you can control all the Diskeeper 8.0 installations on your network. See Appendix A for tables showing all the Diskeeper editions with the features and operating system versions they support. About Fragmentation As used in this manual, the term disk fragmentation means two things a condition in which pieces of individual files on a disk volume are not contiguous, but rather are broken up and scattered around the disk; and a condition in which the free space on a disk volume consists of little pieces of space here and there rather than a few large free spaces. The effects of excessive fragmentation are twofold as well file access takes longer because a file must be collected in pieces here and there, requiring several disk accesses instead of just one; and file creations take longer because space for the file must be allocated in little pieces here and there instead of just one contiguous allocation. The bottom line fragmentation slows Windows system performance. The longer you wait to defragment your disk volumes, the slower your computer runs. With Diskeeper, all the disks in a Windows operating system can be kept defragmented indefinitely. Diskeeper cleans them up and keeps them that way.

<https://www.informaquiz.it/petrgenesis1604790/status/flotaganis22052022-0927-0>

This includes disks with compressed, encrypted and sparse files on NTFS volumes. Running either invisibly as a background job or as a manual defragmenter, Diskeeper carefully rearranges files and

free space on a disk volume so they consist of as few pieces as possible. Because Diskeeper runs online, there is no need to lock users off a disk while it is being defragmented. Diskeeper is the complete Set It and Forget It solution to the loss in system performance caused by disk fragmentation! If you are running Windows NT, Windows 2000, Windows XP or Windows Server 2003, you should also use Undelete for Windows Instantly recover files that have been accidentally deleted anywhere on your network. Undelete sets up a Recovery Bin that caches all deletions even versions created between backups and saves you the time and money of wading through backups. Undelete also includes a recovery tool for files that have been deleted before Undelete was installed. Data is your business. Complete your data protection solution with Undelete, available from your local reseller or directly from Executive Software. Sitekeeper System Management Software Get ataglace updates on every software version, build, update and patch. Also see detailed hardware information including processor speed, RAM, hard drive size, logical free space and asset management tags from the BIOS and motherboard. Before the Installation Windows Versions and Platforms Supported Diskeeper runs on the Intel x86 platform including Pentium and compatible CPUs from other manufacturers running Windows Server 2003, Windows XP Professional, Windows 2000 Professional or Server, Windows NT 4.0 Workstation or Server, Windows Me, Windows 98, or Windows 95 OSR 2.

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File Systems Supported Operating System Windows Server Windows XP Windows 2000 Windows Server 2003 Windows NT SP 6 or higher Windows Me Windows 98 Windows 95 OSR 2 or higher File Systems NTFS, FAT16 and FAT32 NTFS and FAT16 FAT16 and FAT32 Note that the 12bit FAT file system is not supported. The 12bit FAT file system is used on FAT volumes smaller than 16 megabytes in size, such as floppy disks. In addition, NTFS volumes formatted with a cluster size larger than 4 kilobytes are not supported except on Windows XP and Windows Server 2003, which support cluster sizes up to 64 KB. On Windows Server 2003, Windows XP and Windows 2000 systems, Diskeeper will need about 6.5 MB. Allow about 10 MB of extra free space for temporary files during the installation. Additional Software Requirements On Windows NT 4.0 computers, Service Pack 6 is required for Diskeeper to function properly. Diskeeper will not install on Windows NT systems running Service Pack 5 or lower. Diskeeper relies on both the Distributed Component Object Model DCOM and the Microsoft Management Console MMC. DCOM is used for communication between the various components that make up Diskeeper. For example, when a Diskeeper defragmentation operation is scheduled to begin, the Diskeeper controller module uses DCOM to send a message to the defragmentation engine to begin the defragmentation process. The MMC provides a single point of control for system utilities such as Diskeeper. The MMC is used as a central location for a variety of Microsoft and third party administrative tools. Note In most cases, Windows 95 systems are not running either DCOM or the MMC by default. The MMC normally has to be installed separately, except on Windows 2000, Windows XP and Windows Server 2003 Installation Procedure The Short Version The Diskeeper installation is typically fast and simple.

<http://gromoga.com/images/Dishwasher-Bosch-Exxcel-Manual.pdf>

Here are the basic steps Note On Windows NT, Windows 2000, Windows XP, or Windows Server 2003, make sure you are logged onto an account that is a member of the Administrators group. 1. Insert the Diskeeper CDROM into the appropriate drive on your computer. If you are installing from a downloaded file, doubleclick the file you downloaded. 2. Follow the screens displayed, answering the questions asked as prompted. That s it! It would still be a good idea to read After the Installation on page 6, but you re done with the installation. Installation Procedure The Details Installation Overview Diskeeper is installed by the SETUP.EXE program supplied on the Diskeeper CD ROM. The SETUP.EXE program Confirms that you have Administrator privileges on Windows NT, Windows 2000, Windows XP, and Windows Server 2003 systems. Determines which Windows version you are

running. Checks for sufficient space on the disk for the installation. Detects and removes any previously installed Diskeeper software. Copies the Diskeeper files to the destination directories, updates the Windows registry, starts the Diskeeper service, and creates a link in the start menu for Executive Software Diskeeper. This procedure applies to both methods. Before you start the installation, please note the following Windows 95 machines must be OSR 2 or higher. Windows NT 4.0 machines must have Service Pack 6 or higher installed On Windows NT 4.0 machines, if you have previously installed Diskeeper Lite on your computer, Executive Software recommends that you uninstall it before proceeding with the installation of Diskeeper. If, however, you decide to leave Diskeeper Lite on your system, be aware that uninstalling Diskeeper Lite after the installation will remove certain Windows NT registry entries used by Diskeeper, and you will need to reinstall Diskeeper.

On Windows 2000, Windows XP and Windows Server 2003 machines, installing Diskeeper will not remove the builtin defragmenter, but Diskeeper will automatically become the default defragmenter. The builtin defragmenter will be restored if you uninstall Diskeeper. To install Diskeeper on Windows NT, Windows 2000, Windows XP, or Windows Server 2003 systems, you must be logged into an account that is a member of the Administrators group. This installation procedure assumes you are installing from CDROM. If the Diskeeper software was downloaded from the Web, doubleclick the executable file in the directory into which it was downloaded and go directly to step 1. Insert the Diskeeper CDROM into the appropriate drive on your computer. 2. The Windows AutoPlay feature automatically displays a screen that allows you to install Diskeeper or choose from an assortment of trialware versions of Executive Software products. If you have disabled the AutoPlay feature, simply doubleclick the Setup.exe file in the rootlevel folder on the CDROM and follow the instructions displayed. 3. If you are installing an upgrade version of Diskeeper and do not have the previous version currently installed on your computer, you will be asked to verify your previous version. You can skip this step if you are installing a full or trialware version of Diskeeper. If you do not have a full version installed, but have an ESD Electronic Software Distribution version of Diskeeper on your system, you will be asked for its location. This must be the only file located in the folder When Setup has verified the version is valid, the installation will continue. If you do not have a full version installed but have a CD of a full version, you will be asked to insert the CD. After Setup checks the CD, you will need to reinsert the CD you are installing the new version from. Press the SHIFT key when inserting the older CD as well as the newer CD, to disengage the AutoPlay feature. 4.

Click Next when the welcome message appears. 5. After you have read and accepted the license agreement, click Next to continue. 6. As an option, you can change the destination location for the Diskeeper files. By default, Diskeeper is installed here \Program Files\Executive Software\Diskeeper You can choose a different disk volume or directory for the installation as follows a Click Change.If the directory you specify does not exist, a new directory will be created.Microsoft Management Console MMC, which is the interface for Diskeeper, requires these components. These components are a small subset of Internet Explorer not the complete Internet Explorer product. Installing these components hhupd.exe, 50comupd.exe, and wintdist.exe will not affect your current web browser. Note that you must restart your computer after installing Diskeeper if these components are installed. 8. If the MMC is not installed on your computer, the MMC Setup program is started automatically. After the MMC files are installed, the Diskeeper Setup program resumes. 9. The Setup program checks to confirm DCOM is installed on your computer. If it is not, the DCOM Setup program is begun. After a short period of copying files, the DCOM installation is complete. 10. Setup detects and removes any previously installed Diskeeper software. Any previous Diskeeper settings are not saved. 11. On a Windows 2000, Windows XP or Windows Server 2003 system, after Setup is complete, you can immediately start Diskeeper after clicking Finish. After the Installation Check for Update The first time you run Diskeeper, it automatically checks to see if a more recent version of

Diskeeper is available. If so, you are given the option to download and install the newer version. When the download screen is displayed, click Run this program from its current location to begin installing the update. Or, click Save this program to disk to save the Diskeeper update installation package on your computer for later installation.

To install an update stored on your computer in this manner, simply doubleclick the file you download and follow the instructions displayed. You can check for Diskeeper updates any time you want. Use the Check for update option in the Change your settings menu to see if a newer version of Diskeeper is available. Registering Diskeeper After the Diskeeper installation is complete, you may be given the option to register your Diskeeper purchase online. You can also register Diskeeper by mailing or faxing the registration card that comes with the CD. Be sure to register your Diskeeper purchase to receive the free 90 days of telephone support included with Diskeeper. About Windows Service Packs Since Diskeeper uses mechanisms built into Windows NT, Windows 2000, Windows XP, and Windows Server 2003 that allow the safe movement of files on a disk that is actively being accessed by users, there is no need to upgrade Diskeeper each time you install a new Windows Service Pack upgrade. About the Diskeeper Service Diskeeper is primarily designed as a Set It and Forget It disk defragmenter. In order to accomplish this goal, it creates a Windows service. The service allows Diskeeper to run in the background while other applications are running. As long as your operating system is up and running, Diskeeper can defragment your disks, whether you are logged on or not. After installation, the Diskeeper service starts automatically each time your computer is restarted. The Diskeeper service runs all the time, whether or not defragmentation is occurring. This service consumes negligible system resources, and in most cases will never need to be disabled. The Windows Application Event Log When running under Windows NT, Windows 2000, Windows XP, and Windows Server 2003, Diskeeper places messages in the Windows Application Event Log. By default, this log is 512 kilobytes in size except on Windows Server 2003, and is set to overwrite events older than 7 days old.

Diskeeper can quickly fill the log file if these default settings are used. To prevent this, perform these steps to change the size and overwriting characteristics of the Application Event Log On Windows 2000 and Windows XP 1. Rightclick the My Computer icon on your desktop and select Manage. 2. When the Computer Management Console is displayed, select System Tools, and then Event Viewer. 3. Expand the Event Viewer by doubleclicking it and select Application. 4. Next, click the Action menu and select Properties. When Diskeeper logs an event, the event and its message are appended to the Diskeeper log file. These events are written as a text file, which can then be viewed with Notepad, or your choice of text editor programs. The Diskeeper log file is named DkEventLog.txt and it is stored in the directory folder where Diskeeper is installed. The file is limited to 1 MB in size. When it reaches this size, the log is purged completely and the event log is started from scratch. Remote Installation Diskeeper can be installed simultaneously on multiple computers in a network, using Diskeeper Administrator Edition. Remote installation can be a tremendous time saver for system administrators, especially on large networks, where they may have to install Diskeeper on hundreds, or even thousands of computers. For more information on remotely installing Diskeeper, see Appendix D. Uninstalling Diskeeper To uninstall Diskeeper on Windows NT, Windows 2000, Windows XP, and Windows Server 2003 systems, you must be logged into an account that is a member of the Administrators group. This removes the Diskeeper program files from your computer. In most cases, the Diskeeper installation directory will not be removed. 4. On Windows 2000, Windows XP, or Windows Server 2003 systems, the Windows Disk Defragmenter is restored to the state it was in before Diskeeper was installed. 5. Manually delete the Diskeeper installation directory if it exists.

Introduction Recent marketing research has shown that computer system performance and reliability are major concerns among system administrators. Disk fragmentation is a major cause of

these performance and reliability problems. Diskeeper is designed to not only handle the fragmentation problem, but to give you information about the performance and reliability status of your disk volumes. Keep in mind the primary purpose of a defragmenter is not to make your disks look pretty, but to improve the operating condition of your disk volumes. So while Diskeeper does provide a graphic view of your disks and any fragmentation found, more importantly, it shows you performance measurements and reliability data that you can apply to proactively keep your disk volumes in top shape. Diskeeper performs a comprehensive analysis of the fragmentation on your disk volumes. After analyzing a disk, Diskeeper shows you the amount of performance improvement you will get by defragmenting the disk, and rates the reliability of the disk, based on the analysis results. Diskeeper also provides multiple methods by which to see the extent of the fragmentation several graphic displays giving a graphic representation of the fragmentation on your volumes and a fragmentation report view showing statistical information about the fragmentation on your volumes. After installing Diskeeper, you are ready to start Diskeeper and begin defragmenting your disk volumes. In order to see the actual gains from defragmentation, analyze the condition of your volumes before you begin defragmenting them. By reviewing the Diskeeper displays both before and after running Diskeeper, you will be able to see the actual reduction of file fragmentation and improvement in performance and reliability. 22 12 Getting Started Quick Tour When you start Diskeeper for the first time after a successful installation, you'll see this welcoming message Read the message it contains simple instructions on how to start using Diskeeper.

After you have read the message, you can prevent it from displaying in the future by clearing the check box in the bottom left corner. Click OK to continue. 23 Getting Started 13 After the Welcome screen is displayed, Diskeeper checks to see if a more recent version is available. Click OK to check to see if an update is available for Diskeeper. Note that you must have an active internet connection in order for Diskeeper to check for a more recent version. If a newer version of Diskeeper is available, you are given the option of downloading it. Otherwise, click Save this program to disk to save the Diskeeper update installation package on your computer for later installation. To install an update stored on your computer in this manner, simply doubleclick the file you download and follow the instructions displayed. You can also check for Diskeeper updates any time you want. Use the Check for update option in the Diskeeper Help menu. 24 14 Getting Started After checking for updates, it's time to start learning about Diskeeper. Menu Bar Toolbar Disk Volume Pane Tab Controls Command Pane Status Bar Information Pane When you first start Diskeeper, the Performance tab pane is displayed. Like the other tabcontrolled panes, this one gives quite a bit of information. This pane gives instructions for analyzing your drives, and also give you some background information about the effects of fragmentation. Let's analyze a disk volume before we continue with the tour. Select a disk volume and click Analyze selected drive, then Start in the Command pane. Tip You can also use the Analyze button selected disk. Here's an example after analyzing drive C As you can see, the Performance pane now shows a performance analysis for drive C. The upper bar graph shows the current read times for only the fragmented files on the drive and the lower graph shows read times for all the files on the drive.

The graphs also show the expected optimum read time for both cases, based on drive performance measurements. This view gives you a detailed picture of your disk performance losses due to fragmentation, and the expected improvement you will see after defragmentation. It should be noted that the first performance analysis is based on predetermined disk performance values measured as a part of disk performance research done by Executive Software. To get a more accurate performance measurement of your actual disks, Diskeeper must scan your drives to measure their performance. Since this measurement can briefly slow down your computer, this scan operation is disabled by default, but you can turn it on easily. The Set performance data options option is described in the Change your settings menu section on page 54. 26 16 Getting Started Now that we see how the performance of drive C is impacted by fragmentation. Click the Reliability tab to see the

Reliability pane Reliability Tab The Reliability pane gives a reliability analysis and rating, the reasons for that rating, and recommendations for improving or maintaining the reliability of the disk volume. In this example, the reliability analysis for drive C shows a considerable amount of fragmentation, warranting a Warning rating. The ratings are based on several factors. You may see different conditions on your disks, such as too little free space or a badly fragmented paging file. 27 Next, click the Fragmentation tab to see the Fragmentation pane Getting Started 17 Fragmentation Tab Useful information about the disk volume is shown in the Fragmentation pane. Note that most of the information here can also be recorded in the Diskeeper Event Log. For more information, see Logging Diskeeper Activity on page 69. 28 18 Getting Started Now we ll look at a picture of the fragmentation on drive C.

Click the Drive Map tab to open the Drive Map pane shown here Drive Map Tab The group of horizontal bars in the Drive Map pane gives a graphic representation of the fragmentation of your disk volume. The color legend in the Command pane shows what the colors in the display mean. Of particular interest in this example, the red areas show the fragmented files on the disk. Next, let s defragment drive C and see what type of improvement Diskeeper can provide. Click Defragment selected drive, then Start in the Command pane to start the defragmentation process. Notice that drive C is still selected Tip You can also use the Defragment button selected volume. Instead, the Drive Map pane shows numerical defragmentation information. The TVE is available in selected Server editions of Diskeeper. See Appendix A for a table showing the Diskeeper editions with TVE support. 29 Getting Started 19 After the defragmentation is complete, it s time to see how Diskeeper has improved the condition of the disk. Open the Performance pane by clicking the Performance tab. You will see a display similar to this Performance Tab In this example, you can see that defragmenting drive C has restored its performance back to the optimum level. The dotted lines in the graph display shows a good before and after picture of your drives performance. 30 20 Getting Started Next, check the reliability rating or index after defragmentation. Click the Reliability tab to open the Reliability pane. You ll see a display similar to this Reliability Tab Now that drive C has been defragmented, its reliability index is Healthy. A quick review of the Fragmentation pane and the Drive Map pane will also show improvement to the condition of the disk. Keep in mind that badlyfragmented disks may need more than one defragmentation run to completely handle the fragmentation problem.

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