User Guide

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Thank you for choosing Laplink DiskImage!

As you probably know all too well, important data can be unexpectedly lost as a result of a system crash or viral attack. Laplink DiskImage is the ideal tool for quickly and easily taking the trouble out of such inconveniences. Laplink DiskImage enables the convenient duplication or archiving of entire operating systems and individual disks. It even supports dynamic drives and RAID systems.

Easily protect against data loss: Create image files of your drives on a regular basis and you'll be fully protected against data loss. The Start Page for Laplink DiskImage offers easy access to tasks such as imaging, restoring, and cloning.

Advanced imaging options: You can customize the imaging methods to suit your own individual needs. Even a 1:1 image of your system or user-defined images are possible. Laplink DiskImage features many other options for creating and restoring images exactly the way you would like. As a result of the special Laplink DiskImage program settings, a substantial amount of computer performance is saved, allowing you to continue working on your PC while the image is created.

Laplink DiskImage is an effective imaging application for both business and home users.

System Requirements

- **Operating System**: Windows 8/7/Vista/XP.
- RAM: Install DiskImage Min. 256 MB RAM; Run DiskImage from a bootable CD
 Min. 1 GB RAM.

Note: With DiskImage installed on Windows 7/8, you can create a boot CD that can be used later to restore a PC image if Windows should fail.

See the section 'Create DiskImage Bootable Disk (CD)' on page 12 for further instructions.

Installing Laplink DiskImage

Note: Please make sure that no other backup or imaging software is installed on your computer when installing or working with Laplink DiskImage. Using more than one backup / imaging software application on the same PC can cause problems with the computer's hard drive.

- 1. Start the computer on which you would like to install Laplink DiskImage.
- 2. Log on as a local Administrator or user with equivalent privileges.
- **3**. Insert the Laplink DiskImage CD into the CD-ROM drive, or double-click the executable file.
- 4. Follow the prompts in the Wizard, and click **Install**.
- 5. When prompted, restart your computer.

IMPORTANT: When you purchase Laplink DiskImage Professional, you are purchasing a license that limits you to using DiskImage on one (1) computer. You cannot use your serial number to install DiskImage on another PC. For complete details, refer to the End User License Agreement (EULA).

If you do not enter a valid serial number, you will only be able to use a trial version of Laplink DiskImage Professional for up to 30 days. To purchase additional licenses of DiskImage, please visit http://www.laplink.com or contact our Sales department at (800) LAPLINK (527-5465) or (425) 952-6001.

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Registration

Note: In order to activate the product after installation or to gain access to the full version at a later time, you must possess a valid serial number (also called a registration code).

The 'Registration Wizard' will always appears after starting the application if you are using an unregistered trial version or have entered the serial number incorrectly.

 Start Laplink DiskImage on your PC. Select Enter Your Registration Code in the Registration Wizard and click Next. Enter your Name, Company, and Serial Number and click Next.

🙉 Laplink	DiskImage Profes	sional Edition - Registration Wizard
Laplini Version	k DiskImage Pro n 7.0 Build 73	fessional Edition
Please entries	enter your name, with 'Next'.	your company's name, and your serial number in the fields. Confirm your
	Name:	John Doe
	Company:	ABC Company
	Serial#:	A1A1-A1A1-A1A1-A1A1-A1A1
<u>Access</u> <u>Paste L</u>	license informati	on from your own files n from the clipboard
Additional	I Information P	rivacy < <u>B</u> ack <u>N</u> ext > Cancel

Note: Please make sure that you do not confuse the digit "1" with "1" or add any extra spaces.

2. Review the license information and click **Next**. Then, enter your E-mail address, and click **Finish** to start the application.

Should you run into any problems when entering your serial number, please contact our Support Team:

http://www.laplink.com/contact

Introduction to Data Protection

Laplink DiskImage offers everything from the creation of images to the restoration of individual files - everything you need to professionally protect your data.

Overview of Important Features

• **Create Images While System is Running**: Maintenance needed for images could take up to half a day and hinder your computer from running at full capacity. Laplink DiskImage allows you to create reliable images of individual disks without hindering your computer use.

The Snapshot function with integrated buffer memory ensures that the stored data is exactly the way it was when the image was created. Changes to the data, due to usage or to the user, do not influence the running image creation. This ensures consistent image creation without any interruptions.

After imaging all of your data, your installed environment is available immediately should you encounter any problems.

Note: Imaging and restoring Server systems is not possible with Laplink DiskImage Professional. See the following Web address for more information on DiskImage Server Edition:

http://www.laplink.com/diskimage

• **Imaging Methods for Every Need**: Different imaging methods allow the adaptation to different needs. You get a space saving image if you select the setting **Used Sector**.

If you want to be able to later rescue data from a damaged hard disk, then we recommend choosing **Forensic**, in which all sectors are imaged.

After creating a base image, you can create incremental or differential images to save modifications since the last image.

• **File/Folder Back up**: DiskImage makes it possible to back up and restore single files and folders. DiskImage creates an image file (*.obk) of the selected folders and files during a file back up. If you need the files and folders from the image, you can use or unpack the image file with the help of DiskImage or a decompression program, such as WinZip.

Compared to a drive image, the file back up does not store the drive information. The advantage of a regular back up of your files is that the back up takes up much

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less time. In addition, you can create a job to schedule regular back ups. Regular back ups ensure that your backup files are constantly updated and thus secure.

Clone: When cloning, an exact copy of a disk is created, which can be used instead of the original disk. This function enables you to make a cloned image of an entire drive with all the saved data, and without having to create image files. More disk space is required for a clone than for an image.

No incremental or differential follow up image can be done with a clone, which would lessen the data volume. In addition, an image can be compressed (clones cannot) and/or encrypted, which makes the data unusable for unauthorized users.

- Scheduling for Regular Automated Imagings: Laplink DiskImage enables a time scheduled execution of activities through the creation of "jobs". With the help of the Job Assistant Wizard, data can be imaged regularly at predefined times.
- Restoration of Entire Computers and Individual Volumes: Restoring your data is as easy as creating an image. If you want to restore data volumes, it is sufficient to start Laplink DiskImage under Windows.

If you need to re-image a system drive or restore system partitions, then run Laplink DiskImage directly from a bootable CD.

Using the bootable CD, Laplink DiskImage can be run without an operating system and without installing the application on your PC. The CD includes a bootable Windows operating system and DiskImage.

Note: With DiskImage installed on Windows 7/8, you can create a boot CD that can be used later to restore a PC image if Windows should fail.

See the section 'Create DiskImage Bootable Disk (CD)' on page 12 for further instructions.

Restoration of Individual Files: You can access files and folders from the backup file (*.obk) by unpacking the file with the help of DiskImage or a decompression program, such as WinZip.

You can also restore single files from a disk image (*.omg). Simply load the created image as a virtual drive. This allows you to copy files or folders from the image file onto existing drives. However, making changes to the image file, such as deleting or adding files, is not possible.

Apply System Environment on a New Computer: Laplink DiskImage can also assist you when installing or configuring newly acquired computers.

If all the computers are the same, just set up one computer, install Laplink DiskImage, and create a system image. Then apply the image on all remaining computers. Time consuming individual installations are a thing of the past.

Note: A DiskImage volume license is required if applying an image to multiple computers. Contact Laplink Corporate Sales for information on volume licensing: CorpSales@laplink.com

Laplink DiskImage Definitions

• **Drive/Partition**: A drive is a reserved area of the hard disk. Multiple drives can be found on a hard disk. In the following text, the term "drive" will be used to depict (single) partitions as well as logical drives in expanded partitions.

Drives are used, for example, to separate documents from programs. A division in two partitions has become generally accepted:

- Drive C: for operating systems and programs
- Drive D: for documents (e.g., photos, Office documents, music, etc.)
- **Image**: An image is a "copy" of your drive or partition. This "copy" contains all information from the original drive/partition. A special feature of an image is that the file format is compressed and takes up much less disk space than the original.

The more often you create images of your drive, the less you need to worry about data loss. Should data on the original drive be lost or damaged, you can restore your last image with all its data onto your computer. With just a few clicks of the mouse, you can recover the original status of your drive as of the last imaging.

- **Image File**: An image can be made up of many image files (*omg). For instance, if the storage medium you wish to put the image on is not large enough, you can split the image onto different storage media. When splitting an image onto several disks, a new image file is created on each volume that forms part of one image. It is vital that the volumes (CD/DVD) are numbered in case you wish to recover a drive with the image or use it as a base image for an incremental imaging.
- **Complete Image**: All data to be imaged will be imaged again and stored in a folder on the target volume during a Complete Image procedure. Complete images can be created by choosing the methods **Used Sector**, **Forensic** or **Direct Forensic**.

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- **Images of Changes Made**: After you have created at least one complete image, you can record changes made to your hard disk or partitions by using a differential or incremental image.
 - **Differential Images**: Differential images match their data with one of the previous complete images and store the changes. The first "follow up" image after the complete image is always a differential image. To restore a differential image, you will need a complete image as well as the differential image.
 - **Incremental Images**: Incremental images store the changes made since the base image. As a rule, Laplink DiskImage compares the data, so that the incremental image does not require a complete image as a base image. The last incremental or differential image is sufficient for this.

To restore an incremental image, you need the last complete image as well as all the following images recording any changes.

• **Base Image**: A base image is used as the base for further images of changes made.

Differential images require a complete image as base image. The last image of changes made as base image is normally sufficient to run incremental images. A differential image can for instance serve as base image for an incremental image. An incremental image can therefore also serve as base image for further incremental images.

Start Laplink DiskImage - Two Methods

• Start DiskImage from Windows Start (if application is installed on the PC)

This option is recommended for the majority of users and provides access to most functions needed.

- 1. Go to Windows **Start** and choose **Laplink DiskImage**.
- 2. Afterwards, the DiskImage Start Page displays all available program functions.

Start DiskImage from a bootable CD

The bootable CD option is designed for users needing to re-image a system drive or restore system partitions, particularly useful in a disaster recovery scenario. Using the bootable CD, Laplink DiskImage can be run without an operating system and without installing the application on your PC.

Insert the DiskImage bootable CD into your CD or DVD drive, restart your PC, and follow the on-screen prompts. You may need to change your order of boot options (e.g., CD/DVD Drive versus Internal Hard Drive).

Note: With DiskImage installed on Windows 7/8, you can create a boot CD that can be used later to restore a PC image if Windows should fail.

See the section 'Create DiskImage Bootable Disk (CD)' on page 12 for further instructions.

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DiskImage Tasks

Start Page

The Start Page for DiskImage shows a list of the basic DiskImage tasks. Clicking on any of the functions will bring up the appropriate window in which you can accomplish the desired task. Further instructions about each task follows.

Start page - Laplink DiskImage Professional Edition Start Edit Tools View Help	
Start page	
Vou can now image drives the dick 'Start drive imaging'.	aged. Nat have not previously been imaged. If you only wish to image selected drives, please Image now
Start drive imaging Create image of partition, drives or entire computer Image: Start file backup Backup files and folders	Image of the changes Creates an incremental or differential image Start restoration Start restoration of data from existing image
Last run activities	
Action Date	Drives
	View last report Run again
leady	C NUM

Express View

The Express View shows a very compact user interface with the main functions of the programs. You can use the Express view for creating and mounting images as well as for restoring drives.



To access the Express View, start Laplink DiskImage. Then, go to the **View** menu and click **Enable Express view**.

To restore the full view, click the **Restore full view** button (second button to the right).

One-Click Imaging: Create an Image of the Entire Computer

One-click imaging is the fastest and easiest way to create a complete image of all your data and settings on your PC. Your entire computer, including system partitions, are imaged with one click.

If you need to create more advanced settings, such as imaging only one drive out of multiple drives on your PC, follow the steps in the next section **Create an Image of Your Drive**.

To create an image of your entire computer, follow the instructions below:

1. On the DiskImage Start Page, click **Image Now**. In the dialog box that appears, the default save location and image name are listed in the **Target** box. Type in a new file path and/or image name if you want to change from the defaults.

Drive Imaging				
	Target: C:\ProgramD	ata\Laplink\DiskImage\Images\Ima	age20121121.omg	
	Used sector imaging of Disk 0 (Basic) with Partition "System Res with Partition "Partition (C: Compression Encryption Split size validate afterwards convert to VHD afterwards restart when finished shutdown on completion Notice the end by sound excluded file(s):	erved")" LZNT1 Standard No encryption None Disabled Disabled Disabled Disabled Disabled Disabled		A E
More opl	ions		<u>Start</u>	Cancel

2. Review the default imaging settings and click **Start**. The image file (*.omg) will now be created.

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Create an Image of your Drive

1. On the DiskImage Start Page, click **Start drive imaging** (you may also choose **Drive Image** from the Start menu). The program window for creating images will appear.

Strive Imaging - Laplink DiskImage Professional Edition Start Edit Drive Imaging Tools View Help		_	
			٩
Cource drive	Size	Free	File system
🖃 🖉 🍙 Disk 0 (Basic)	40.00 GB		
🗌 🍙 System Reserved	100.00 MB	71.87 MB	NTFS
✓ ⊕ Partition (C:)	39.90 GB	25.48 GB	NTFS
Disk 0			
Basic 40.00 GB 39.30 GB (VITES)			2.00 MB 👻
Add as job		Start drive in	aging
Ready			NUM

2. Select the drive for imaging by clicking the check box next to it.

Note: If all connected drives are not displayed, click 'Refresh Drives' on the 'Edit' menu.

3. Choose any desired advanced settings by clicking the **Imaging Options** button in the upper right corner of the window (You may also go to the **Edit** menu and click **Imaging Options**).

Note: To schedule this drive imaging as a job to be completed at a later time, follow steps one through three. Then click 'Add as job' and see sections 'Create a Job' and 'Schedule a Job' on pages 12-13.

 Once you have completed the additional optional settings, click the Start drive imaging button located in the lower right (You may also go to the Drive Imaging menu and click Start Drive Imaging).

- 5. In the dialog box that appears, the default save location and image name are listed in the **Target** box. Type in a new file path and/or image name if you want to change from the defaults.
- 6. Review the imaging settings and click **Start**. The image file (*.omg) will now be created.

[0%] Drive Ima	ging				
	Target: C:\Pro	gramData\Laplin	k\DiskImage\Ima	1\Image20121129.c	omg
	Current operation:	Imaging used sec	tors on 'System Res	erved' (13,565,952 Bytes	s)
	Snapshot cache: Overall progress: Elapsed time: Remaining time Warnings:	0:00:00:08 calculating None	Write speed:	0.00 KB/s	53% 0%
More op	tions 💌			<u>S</u> tart	Cancel

Note: If one disk is not large enough to save an entire image, you will be prompted to enter a new target path.

To access information on the newly created image, go to the 'Tools' menu and click 'Read image information'. Select the image file and click 'Open'. In the dialog box that appears, click the different tabs to review the image information.

Create an Incremental Image

An incremental image is recommended when you have already made several images of your drive. When creating an incremental image, only an image of the changes to the base image is made. An incremental image normally has a smaller data volume than a base image.

To create an incremental image, you must have first created a base image of the

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respective drives. As a base image you can use either a complete image, using the imaging method **Used Sector**, **Forensic** or **Direct Forensic**, or by using a previously created incremental/differential image. The first "incremental" image after the base image is always a differential image.

Follow the instructions below:

- 1. Make sure that the drive containing the base image is connected to your computer.
- 2. Click **Image of the Changes** on the DiskImage Start Page.
- 3. In the dialog box that appears, select the base image and click **Open**.
- Review the imaging settings. The default save location and image name are listed in the **Target** box. Type in a new file path and/or image name if you want to change from the defaults.

Note: Since both the incremental and base images are needed when restoring an incremental image, Laplink suggests you store the base image and its respective incremental image file on the same drive.

Drive Imaging					- • 💌
unve Imaging	Target: The following o	C:\ProgramDa	ata\Laplink\DiskImage\Images\Ima bled:	age20121129.omg	
	Used sector im Disk 0 (Basic) with Partition Compression Encryption Split size validate afterw convert to VHC restart when fit shutdown on c Notice the end excluded file(s)	aging of "Partition (C: afterwards nished ompletion by sound);)" No encryption None Disabled Disabled Disabled Disabled Disabled Disabled		E
More opt	rive Imaging Target: EXProgram The following options are e Used sector imaging of Disk 0 (Basic) with Partition "Partition (Compression Encryption Split size validate afterwards convert to VHD afterwards convert to VHD afterwards convert to VHD afterwards convert to VHD afterwards excluded file(s): More options			<u>Start</u>	Cancel

5. Click **Start**. An incremental image will be created from the base image. The Imaging Method of the original "complete" image (e.g., Used Sector) remains the same and cannot be amended.

Note: The option 'Use checksums to identify unchanged data' is always set as a standard. When creating incremental images with this option selected, it is sufficient to use the last incremental image as the base image.

Should 'Use checksums to identify unchanged data' not be set, you will need the last base image and all the incremental images previously created, since all of them will be accessed to create this image.

Drive Restoration

- 1. Make sure that the drive containing the image is connected to your computer.
- 2. Click **Start restoration** on the DiskImage Start Page.
- **3**. In the dialog window that appears, select the desired image file (*.omg or .vhd) and click **Open**.

Drive restoration - Laplink DiskImag	e Professional Edition		
start Edit Drive restoration 1001	view Help		
C:\Users\tester\Desktop\XP Off 2007	omg 🔹 🛃		e
Source drive	Size Free File sy	Target drive	Size
🗕 🗌 🐑 Disk 0 (Basic)	50.00 GB) 🍙 Disk 0 (Basic)	40.00 (
🖌 🍙 Partition (C:)	49.98 GB 42.05 GB	🛯 🍙 System Reserved	100.00 N
] 🗊 Partition (C:)	39.90 (
] 🕹 Empty region 1	1.38 N
	,		
Visk 0 (C:)//(34)38 (26) (VITFS Sp00 GB (C:)//(34)38 (26) (VITFS Add as job Add as job	, ////////////////////////////////////		Start drive restoration

- 4. From the list on the left, select the source drive you want to restore.
- 5. In the list on the right, select a target drive. You can either substitute an existing drive or create a new drive (e.g., in an empty sector).

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Note: To schedule this restoration as a job to be completed at a later time, follow steps one through five. Then click 'Add as job' and see sections 'Create a Job' and 'Schedule a Job' on pages 12-13.

6. Click the **Start drive restoration** button located in the lower right. Review the settings and click **Start**. The image will now be restored.

IMPORTANT: During restoration, the image overwrites your selected drive with the data of the drive contained within the image. All data on the target drive is thereby lost and replaced by that of the image.

Note: If you are not restoring the image onto the original hard disk, the memory of the hard disk you're using must have at least as much storage capacity as the original one. This is extremely important when imaging an entire hard disk.

If you split your image onto various storage volumes, all such storage volumes will be required for a restoration. If you have opted to make an incremental image, all images from the original base image and all subsequent incremental images will be required.

If you want to re-image a system drive, you will have to start your computer using the DiskImage bootable CD and start the re-imaging from there.

Back Up Files and Folders

DiskImage gives you the option to back up individual folders or files instead of an entire drive. During a file back up, the files are backed up directly in the form of data. This type of back up contains only file information (no drive information is included).

- 1. On the DiskImage Start Page, click **Start file backup** (you may also choose **File backup** from the Start menu).
- **2.** In the window that appears, in the left column, navigate to the folder that you want to back up.
- **3**. To back up the entire folder, click the check box next to the folder in the left column. To back up individual files, click the check box next to each file in the right column.

File backup - Laplink DiskImage Pro tart Edit File backup Tools V	fessional Edition iew Help				
ð					0
W732EN Clocal Disk (C:) Perflogs Perflogs Public Down Public Vietor Public Vietor Public Vietor Public Vietor Pub	Name	Type MP3 Format S MP3 Format S MP3 Format S	Last modified 7/13/2009, 0:52:25 7/13/2009, 0:52:25 7/13/2009, 0:52:25	Size 8.02 MB 3.92 MB 4.62 MB	
Add as job				Start file backup	

Note: To schedule this back up as a job to be completed at a later time, follow steps one through three. Then click 'Add as job' and see sections 'Create a Job' and 'Schedule a Job' on pages 12-13.

- Once you have selected all desired files and/or folders, click the Start file backup button located in the lower right (You may also go to the File backup menu and click Start file backup).
- 5. In the dialog box that appears, the default save location and backup file name are listed in the **Target** box. Type in a new file path and/or file name if you want to change from the defaults.
- 6. Review the back up settings and click **Start**. The backup file (*.obk) will now be created.

Regular File Back up: In addition to completing a one-time back up, you can create a job to schedule regular back ups. Regular back ups ensure that your backup files are constantly updated. To create a job, follow steps one through three above and then see sections **Create a Job** and **Schedule a Job** on pages 12-13.

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Restore Files and Folders (From Backup File)

Note: To restore files and folders from an image file (*.omg), follow the steps in section 'Mount Image File as Drive'. Then copy files or folders from the mounted image file onto existing drives.

To restore files and folders from a backup file (*.obk), follow the instructions below:

- 1. Go to the **Start** menu and click **File restoration**.
- 2. Select the backup file you want to restore from the **Select image** drop down menu in the upper left.

If the backup file is not listed, click the **Select image** (left) button located in the top center of window (You may also go to the **File restoration** menu and click **Select image**). Navigate to the backup file, select the file, and click open.

File restoration - Laplink DiskImage Start Edit File restoration Tools	Professional Edition View Help			- • ×
C:\ProgramData\Laplink\DiskImage C:\ProgramData\Laplink\DiskImage	\Images\Image20121130.	B		
<select image=""></select>	Ivanie	Туре	Last modified	Size
	*	10		
Add as job			Start file r	estoration
Add as lop			Start file 1	coorditori
Ready			ō	NUM

3. Then, click the **Select target folder** (right) button located in the top center of window. Choose from the following two restore options:

folders that the backup file was created from.

 Select Its own restoration file to restore the contents of the backup file to a separate folder, which doesn't overwrite the original files and/or folders.

Click **OK**. If you selected the second option, click **Yes** to create the new folder.

Note: To schedule this restoration as a job to be completed at a later time, follow steps one through three. Then click 'Add as job' and see sections 'Create a Job' and 'Schedule a Job' on pages 12-13.

4. Click the **Start file restoration** button located in the lower right. Review the settings and click **Start**. The contents of the backup file will now be restored.

Clone Drive

When cloning a drive, an exact copy of the drive is created, which can be used instead of the original drive. This function enables you to make a cloned image of an entire drive with all the saved data, and without having to create image files. You do, however, require a lot more storage space for a clone than for an image.

Compared to an image, a clone cannot be used to create follow up incremental or differential copies to lower the data volume. Also, a clone cannot be compressed and/or encrypted to prevent unauthorized access.

To clone a drive, please follow the instructions below:

- 1. Go to the **Start** menu and click **Clone Drive**.
- 2. From the list on the left, select the source drive you wish to clone.

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3. In the list on the right, select a target drive.

Clone drive - Laplink DiskImage F	Professional Edition			
	oreo ricip			<u></u>
Source drive	Size F	Free File sy	Target drive	Size
🗕 🗌 🕡 Disk 0 (Basic)	40.00 GB		🖃 📄 🗊 Disk 0 (Basic)	40.00 GB
🗌 🍙 System Reserved	100.00 MB	71.87 MB	🗹 🌍 System Reserved	100.00 MB
Partition (C:)	39.90 GB	23.66 GB	Partition (C:)	39.90 GB
🗆 🕹 Empty region 1	1.38 MB	1.38 MB	🗌 🕹 Empty region 1	1.38 MB
	(C:) 39.30 GB (MTFS)	1.38 MB		
Add as job				Start cloning
Ready				D NUM

Note: To schedule this cloning as a job to be completed at a later time, follow steps one through three. Then click 'Add as job' and see sections 'Create a Job' and 'Schedule a Job' on pages 12-13.

4. Click the **Start cloning** button located in the lower right. Review the settings and click **Start**.

IMPORTANT: When cloning your Drive (Source Drive), the selected target drive (i.e., the place chosen for the clone to be stored) will be overwritten. All data stored on it will be deleted and replaced by the clone! You should therefore save the cloned image on, for example, an external hard disk chosen for this purpose.

Note: When making a cloned image of the drive, you should adjust the features of the target drive for future application. Make sure, for example, that the system partitions of the cloned image will be able to boot.

Additional options for cloning the image may be selected under 'Cloning Options'.

Mount Image File as Drive

Display an image file in Explorer as a virtual drive. You can then copy files or directories from the image file onto existing hard disks. Making changes to the image file, such as deleting or adding files, however, is not possible.

- 1. Go to the **Tools** menu, and click **Mount drive from image file**.
- 2. In the dialog box, navigate to the folder where you saved the image. Select the image and click **Open**.
- 3. In the dialog box that appears, select the **Enable mounting entire disk** check box.

Contained volumes		Properties	
Enable mounting entire disk	Name File system Size in MB Free in MB	Partition NTFS 51183 43062	

- 4. Under **Contained volumes**, select the displayed drive as image (listed here in the example, "Partition (C:)").
- 5. Click the drop-down arrow and select the desired name for the drive (e.g., K:).
- 6. Then click **Mount Drive**. If the mounting process was successful, you will see the image displayed as Drive (K:) in Windows Explorer.

Note: You may only access sectors which contain image files. Refreshing can take a few moments.

Initializing an entire hard disk as a virtual drive can lead to problems of recognition for the virtual storage volume, if the imaged hard disk contains one of the following:

- a damaged partition table partitioning process not supported by your operating system (e.g. GPT)

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- a RAID System component, where only one physical hard disk was imaged
- a dynamic drive
- encrypted hard disk

Note (Technical Limitations Refreshing under Windows): If you are working over a remote desktop connection, you must restart your computer to display the newly created drive.

Loading images, which are larger than 2TB, is not supported by Windows XP (32-Bit).

Mount ISO File as Drive

If you have saved data as an ISO file, you can mount this ISO file as a drive and view the files it contains. This allows you to copy individual files and folders from the ISO file onto existing drives. It is, however, not possible to make changes (such as deleting or adding files) to the virtual hard disk mounted from the ISO file.

To mount an ISO file, please follow the instructions below:

- 1. Go to the **Tools** menu and click **Mount ISO file as drive**.
- 2. In the dialog box that appears, click the ". . ." button to the right of the text box. Navigate to the ISO file and click **Open**.
- **3**. Click the drop-down arrow and choose the drive letter for the mounted drive (e.g., F:).

🥩 Mount ISO file as drive	×
C:\Data image 2012-12-06.iso	
Mount ISO file	

4. Then, click **Mount ISO file**, click **OK**, and click **Close**. If the mounting process was successful, you will see the file displayed as Drive (F:) in Windows Explorer.

Burn Image File(s) to CD/DVD

To save your image to CD/DVD, it is necessary to have first created an image, as described in the section **Create an Image of Your Drive** (see page 6). The image file(s) must be stored on an internal or external drive. Only then will it be possible to save your image file(s) (*.omg) to CD/DVD. Images(*.omg) or virtual drives cannot be saved directly on CD/DVD without having first been saved on a drive.

To save your image to CD/DVD, please follow the instructions below:

- 1. On the Start page, click **Start drive imaging**. Then, click the **Imaging Options** button in the upper right corner of the window (You may also go to the **Edit** menu and click **Imaging Options**).
- 2. In the dialog box, under File Size, select Split image into smaller image files with fixed sizes. Select the correct file size from the drop-down list to limit the image files to the size of your blank CD/DVD. The image will then be split into multiple image files. The splitting of the image file at a later time is also possible.
- 3. Click **OK**. Then, go to the **Tools** menu and click **Burn image file(s)**.
- In the dialog box that appears, click Next, select Burn Image File(s), and click Next.



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- 5. Click the drop-down menu in the upper right and choose the type of CD or DVD you are using. Then, click Add and navigate to the image file(s) (*.omg or *.vhd) you want to burn to the CD/DVD. Select the file and click Open.
- Review the dialog box and click Next when ready. Follow the on-screen instructions to complete burning the image file(s) to CD/DVD.

Note: Besides CD/DVDs the program also supports Blu-Ray Disks and HD/DVDs.

If you change the name of individual parts of the image, it is recommended to keep the "numerator" (the number in brackets), so you are able to trace the order of the parts and avoid problems during restoration at a later time.

Create DiskImage Bootable Disk (CD)

With DiskImage installed on Windows 7/8, you can create a boot CD that can be used later to restore a PC image if Windows should fail.

Using the bootable CD, Laplink DiskImage can be run without an operating system and without installing the application on your PC. Once created, the CD will include a bootable Windows operating system and DiskImage.

Note XP/Vista Users: If you would like to create a boot CD, you will need to access a Windows 7/8 system and temporarily install DiskImage. After your boot CD has been successfully created, uninstall DiskImage and proceed with final installation and use of DiskImage on your XP/Vista system.

To create a DiskImage bootable CD, please follow the instructions below:

- 1. Go to the **Tools** menu and click **Create bootable disk**.
- 2. In the dialog box that appears, leave the **Disable** check box selected and click **Create**. DiskImage will then prepare the files for the boot CD.

reating a bootable CD Image of O&O DiskImage Properties	×
Step 1 of 2: Preparing system configuration	
☑ Disable the automatic setting (for advanced users)	
Windows® Recovery environment	1
Windows® Assessment and Deployment Kit (Windows ADK)	8
O Windows® Automated Installation Kit (AIK)	8
O Windows® Installation media	1
Loading the Windows volume image Modifying registry 100% Copying product files 100% Unloading the Windows volume image Processing was successful.	
< <u>Back</u> Next Cancel	Help

- Wait for the process to complete. Once you see the message "Processing was successful." in the text box, click Next.
- **4.** Insert a CD into your CD or DVD drive. This drive needs to have read and write capabilities.
- 5. Click the drop-down arrow and choose the hardware name of your CD or DVD drive ("CD" or "DVD" will likely be part of this name). Then click **Create**.

Note: To start DiskImage from this bootable CD, insert the DiskImage bootable CD into your CD or DVD drive, restart your PC, and follow the on-screen prompts. You may need to change your order of boot options (e.g., CD/DVD Drive versus Internal Hard Drive).

Create a Job

A job is a task (e.g. Imaging) saved with specific settings. A schedule to automate the task can also be set up if desired.

Note: Before setting up a job, you will have to select the corresponding activity.

1. On the Start Page, click the task desired (e.g., **Start drive imaging**).

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Put in place all the settings that are necessary for the job. Select, for example, the desired drives for imaging or specify additional settings by clicking the **Imaging Options** button in the upper right corner of the window. Your settings will then be saved and applied to the subsequent job.

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3. Now click **Add as job** and enter a name in the **Save job** dialog box under the **General** tab for this particular job. The name will be used later for preparing the report, and will serve as information regarding the activity this job will run.

Save job		×
General	Scheduling Notification Image Before job After job Information	
	The job will start one time only on Thursday at 15:00.	
5	Information Name: Job 1 Notes:	
	Job enabled Perform job under the following user account	
	<u>QK</u> <u>Cancel</u> <u>Apply</u> <u>H</u> el	p

Additional options for this specific job can be chosen under the other tabs in the **Save job** dialog box.

Schedule a Job

In the same **Save job** dialog box (described in step 3 under the **Create a Job** section), under the **Scheduling** tab, choose whether to run the job once only or on a weekly schedule (e.g., every Monday).

Schedule:	One or more times a week	
Weekday:	Mon Tue Wed V Thu Fri Sat Sun	
Beginning:	At a certain time	
Start time:	15:00 💿 Time frame: 30 👘 Minutes	
Start date:	E/25/2012 Finish date: 12/ 6/2012	

You may also choose the start date, time, and other options relating to the schedule.

Feedback and Support

We invite your comments about Laplink DiskImage Professional. Please feel free to contact us at: feedback@laplink.com

In addition to the contact information for Customer Service at the top of this page, you can engage in a live chat online with a Technical Support Representative at the Web address below, during the hours listed on the Web page:

http://www.laplink.com/contact/mychat.html