Installation and User's Guide

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Technical support is provided on-line. The most current version of software and documentation is available at http://www.terabyteunlimited.com.

Registered users should email their questions to: support@terabyteunlimited.com
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What Is Image for Windows?

Image for Windows is a Win32-based backup/restore program. It protects your system by creating a compressed or uncompressed "snapshot" of all used areas of your FAT, FAT32, NTFS, Ext2/3, ReiserFS partition or volume. For other file systems, it saves and restores a compressed or uncompressed snapshot of all sectors in the partition or volume.   Content is written to a set of files or directly to a writable DVD or CD. Your computer is protected from a crash or malicious invasion by allowing you to restore the snapshot image.

When you create the image, the file system and files are backed up as they were on your drive at the time of the backup. Image for Windows does not skip files or assume that some files, such as swap files, don't need to be backed up.   If you are using PHYLock, the swap file will not be backed up.

If you need to restore a single file, you can use TBIView.

Image for Windows is compatible with the image files created by BootIt NG or Image for DOS.

System Requirements

If you will be restoring outside of Windows, or are running Win9x/ME, your computer BIOS must provide access to the hard drive.

Hardware	- IBM-compatible personal computer. 32 MB RAM minimum - Writable CD or DVD drive (optional)
Operating System	- Windows NT (requires Administrator privileges) - Windows 2000 (requires Administrator privileges) - Windows 2003 (requires Administrator privileges) - Windows XP (requires Administrator privileges) - Windows 95 (using Int 13h extensions) - Windows 98 (using Int 13h extensions) - Windows ME (using Int 13h extensions)

Installing the Software

1. From the www.terabyteunlimited.com web site, click the **Image for Windows** link under Downloads.

2. When the **File Download** window displays, click **Save**.

3. Select a location to save the zipped file, imagew.zip.

4. Once the download completes, locate the imagew.zip file you saved and double click it to unzip the files. If you don't have an unzip program installed on your computer you'll be asked which program should be used to open the file. In this case, click cancel; you'll need to locate, download and install an unzip utility such as winzip. Once you have opened the zip file and see the setup program icon you can continue to the next step.

5. Close open programs and then double-click Setup.exe.

SETUP.EXE
Image for Windows Setup
TeraByte Unlimited

6. The setup wizard will guide you to installation. Simply follow the instructions given to you. At some point you may be asked if you want to replace CDBOOT.F35. If you have already extracted the CDBOOT.F35 file from the registered version of Image for DOS to the Image for Windows program directory, or have created your own custom file, reply "NO." Otherwise, answer "YES" to use the shareware version included with Image for Windows.

7. Follow the remaining instructions in the installation program.
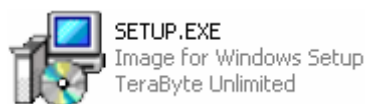
Extracting the CDBOOT.F35 File

This section only applies if you have purchased Image for Windows. CDBOOT.F35 is the file that creates a bootable CD/DVD. When using a registered copy of Image for Windows you must use a full-use version of CDBOOT.F35, otherwise when booting the CD/DVD it will not allow you to restore the image; the full-use version can be found in the purchased version of Image for DOS (imagereg.zip).

If you fail to perform the extraction, you will need to run a registered copy of Image for Windows or Image for DOS from diskette or CD/DVD to restore the image from the CD/DVDs.

1. The link to download the full-use version of Image for DOS is included in the email you received when you purchased the software. Click the link to begin the download.

2. Save the file to your drive.

3. Locate the imagereg.zip file you downloaded and saved then double-click it.

4. Choose the Extract All Files option from the unzip utility.

   Extract the files to the Image for Windows program folder. By default it would be "C:\Program Files\Image for Windows". If during the extraction it finds files that already exist and asks if you want to replace them, choose "YES".

Starting Image for Windows

1. The first time you start Image for Windows, a registration screen will display. If you are using the trial version, click Continue.

Image for Windows

This program is to be used for evaluation purposes only. Click the "Buy Now" button to purchase a full-use license or "Apply" to apply the registration information.

Registration

Name:

Key:

Buy Now   Apply   Continue
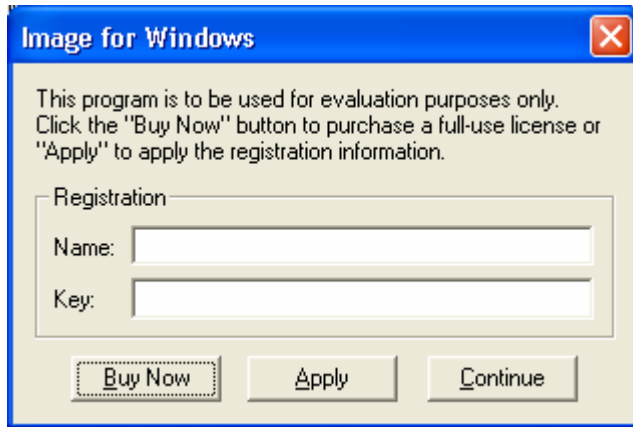
2. If you have purchased the program, you will have received an e-mail with the Registration Name and Key. Enter the name exactly as it appears in the e-mail, including any numbers following the name (the name is everything after [name] and before [key] – sometimes the email wraps part of the name to the next line). Enter the Key exactly as shown in the e-mail.

3. Click **Apply**. Image for Windows will display.

Configuring Image for Windows Settings

The first time you start Image for Windows, you should make sure the settings are appropriate for your system.
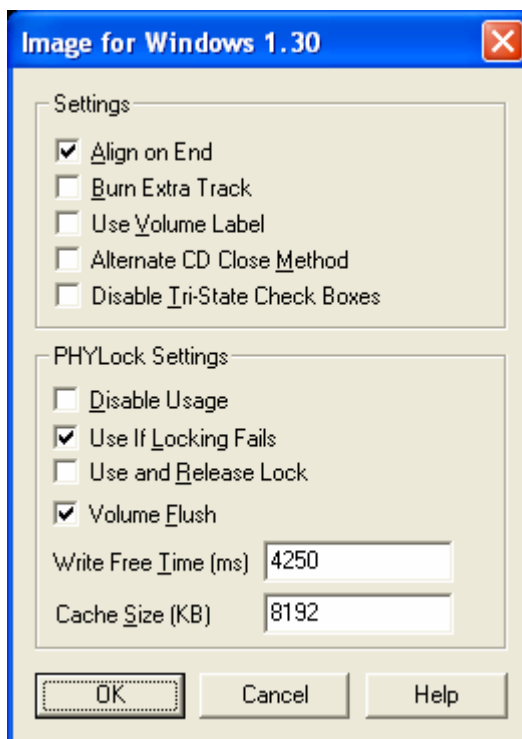
1. Click the **Settings** button.

2. Check a box to enable a setting.

3. Click **OK**.

Settings	
Align on End	Ensures that restored partitions are aligned at the end of a cylinder. You should leave this setting checked.
Burn Extra Track	Enable this option to write the image summary data to CD one as track two when directly imaging to CD. When burned this way, you won't have to insert the last CD before beginning the restore. NOTE: This option may not work correctly with all CD devices.
Use Volume Label	If this option is enabled and the drive contains an EMBR then FAT/FAT32/HPFS partition names will be that of the volume label instead of the name in the MPT. If no EMBR exists then this option is assumed.
Alternate CD Close Method	If you experience errors or problems when a CD is closing during an image to CD operation then enable this option to try a different closing technique.
Disable Tri-State Check Boxes	Enabling this option changes the behavior of the partition selection check boxes so that you can select an extended partition (itself) as the source of a backup.
PHYlock Settings	

PHYLock™ is an optional software component for Win NT/2K/XP that enables Image for Windows to maintain a consistent backup of an unlocked partition or volume. You can obtain PHYLock at the TeraByte Unlimited website by using the Free Software link. It should be noted that the consistency is based on a point in time. Although there is an attempt to pick a "clean" point in time, there is no guarantee that all programs, internal caches, and other processes are in a clean state. This is true of ALL backup software that is backing up a volume that is in use.

If none of the usage options below are enabled then PHYLock will be used if it's installed.

Disable Usage	If you don't want to use PHYLock even if installed, enable this option.
Use If Locking Fails	Use PHYLock if a normal lock cannot be obtained.
Use and Release Lock	Attempt a normal lock then use PHYLock whether or not the lock was obtained. If a normal lock was obtained, it is unlocked after PHYLock is enabled.
Volume Flush	Attempts forcing an additional flush on the volume.
Write Free Time (ms)	This is the amount of time in milliseconds that there can be no updating of the volume before PHYLock is enabled. You should try to keep the value above 1250. The default is 4250.
Cache Size (KB):	This is the size of the internal cache in kilobytes used by PHYLock to maintain the data consistency. The default is 8192 (8MB).

Backing Up Your System

1. If you would like the partition being backed up to be locked then be sure to close any open files on the drive you are going to be backing up. If you are unable to obtain a lock, and you know the lock is not in use, you can continue or consider using Image for DOS or the PHYLock add-on – see settings for more details on PHYLock.

   NOTE: Some virus protection software will prevent a drive from being locked, even when real-time protection is turned off. If you are not using PHYLock or Image for DOS, you may want to close the anti-virus software.

2. Open Image for Windows.

3. Make sure **Backup** is selected.

4. Click **Next**.

5. Place a check in the check box next to the partitions you want to back up and then click Next. If you only see a blank screen it's because you don't have administrative privileges. You should start the program by right clicking the icon and choosing "run as" and choose a user who has administrative privileges.
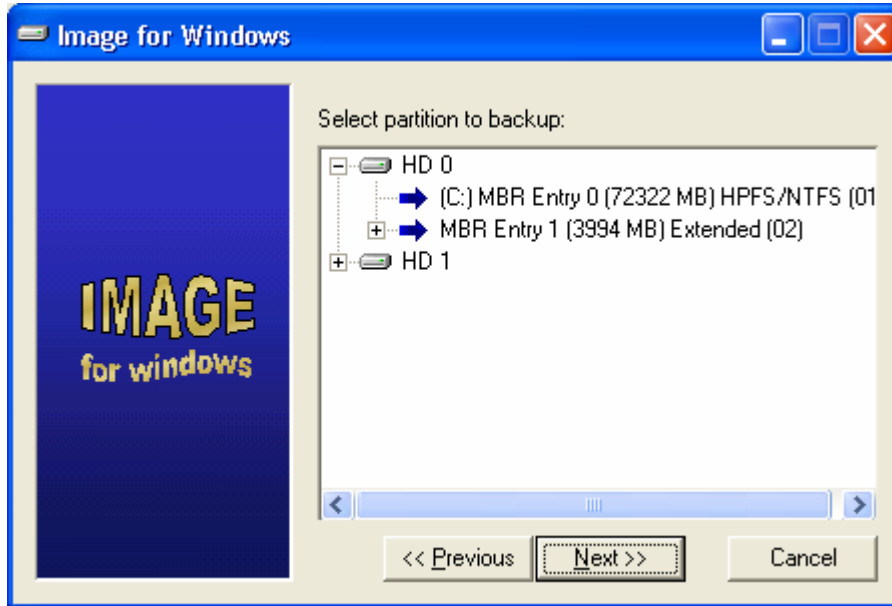
NOTE: The partition list is displayed below the drive (in the above example HD 0). The drive letter is shown at the beginning (C:), followed by a description (MBR Entry 0), size (72322 MB) file system type (NTFS), and the partition ID.
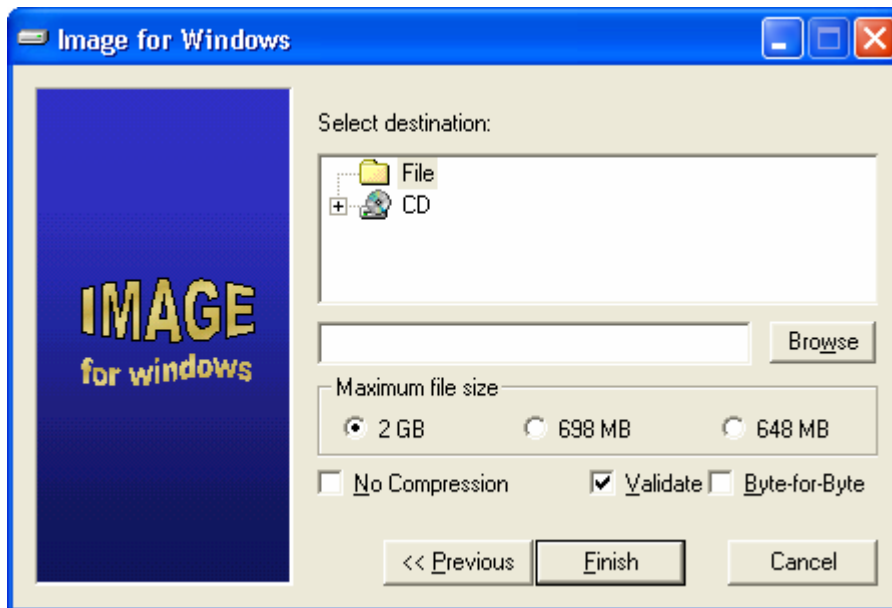
6. Select the destination.

   NOTE: If you are saving the image to a file, do not save it to the same partition you are backing up unless you are using PHYLock. If you do, the restored partition will be in an inconsistent state.

7. Select the appropriate options for your backup.

8. Click **Finish**.

> **NOTE:** If the validation of CDs/DVDs appears to hang it may be due to problems trying to read the media, try a slower speed.

Backing Up the System Partition

If you attempt to backup the system partition, you will be warned that the partition can not be locked. You can ignore this warning and continue, however the only way you can be sure a partition being backed up is in a consistent state is by having it locked or by using Image for DOS.

If you are using Windows NT/2000/XP, you can use the PHYLock utility to maintain the consistency of the system partition to a "point in time."

Deploying Your Image

Image does not change the SID of Windows NT/2K/XP systems. If you are using Image for deployment purposes and want to change the SID for WinNT/2K you should use the MS sysprep utility or you can download a free utility named NewSID,

You may want to set up the base machine so that the last partition ends at one track less then the actual end of the hard drive (around 8MB less) to leave room for different brands or models of the same size hard drive.

See the following for more information on how to prepare for deployment:

Windows XP:
How to Prepare Images for Disk Duplication with Sysprep
http://www.microsoft.com/WINDOWSXP/pro/using/itpro/deploying/duplication.asp

Windows XP Professional How-to Articles for IT Pros
http://www.microsoft.com/windowsxp/pro/using/itpro/default.asp

Windows 2000:
Download for the Microsoft Windows 2000 Sysprep Tool
http://www.microsoft.com/windows2000/downloads/tools/default.asp

Deploying MS Windows 2000 Professional and MS Office 2000 Using Sysprep
http://www.microsoft.com/technet/treeview/default.asp?url=/TechNet/prodtechnol/windows2000pro/deploy/depopt/sysprep.asp

Using Sysprep to Duplicate Disks
http://www.microsoft.com/WINDOWS2000/techinfo/reskit/en/Deploy/dgcb_ins_izyl.htm

Windows NT:
Windows NT Workstation Deployment
http://www.microsoft.com/ntworkstation/technicalresources/deployment/default.asp

Restoring Your System from a Backup

When you are restoring an image you cannot restore over the partition that contains the source image file. This is because the restore will overwrite the file system structures and the image file itself.

When you are booting a restore CD/DVD, make sure the other CD drives don't contain a disc, otherwise the wrong CD drive may be chosen. Additionally, the drive order under Windows may be different so you may need to use the interactive menu press pressing the spacebar when booting the CD/DVD.

1. Open Image for Windows.

2. Make sure **Restore** is selected.

3. Click **Next**.
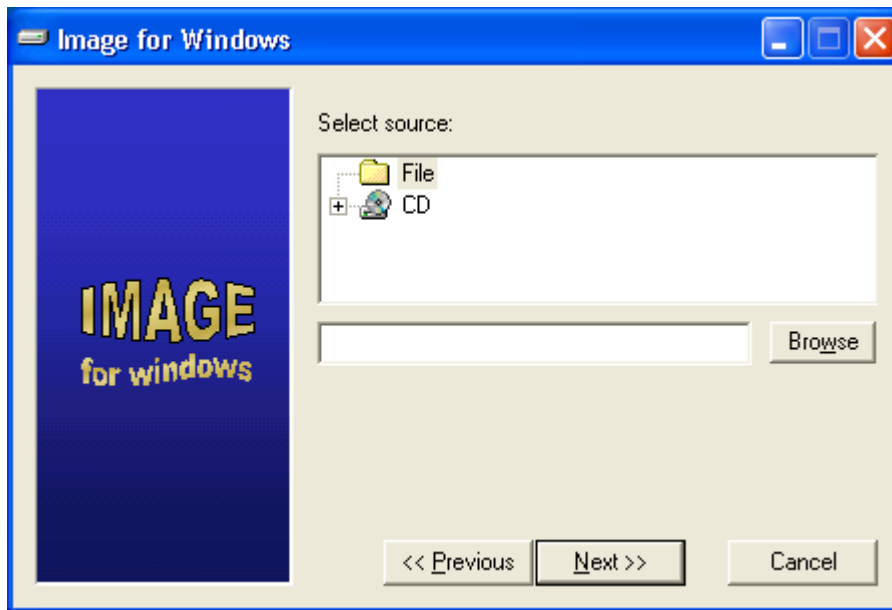
1. Select the source of the backup and click **Next**. This will be the same as the destination you selected when you created the backup.

2. Select the destination to restore the partition and click **Next**. When you restore a partition the existing partition is automatically deleted and overwritten as part of the restore process.

3. Once the restore process completes, if you are asked to do so, reboot the computer.

   NOTE: If you don't reboot when asked, the operating system will think the partition and file system is as it was before the restore. This could cause data corruption. You can override a command line restore with /RN but only if you are an advanced user and understand the potential ramifications of not rebooting.

Running Image from the Command Line

You can run imagew.exe from the command line. Separate the command line options with spaces and enter in the order shown in the following examples. Use the /? for additional command line options not explained in the following section.

Environment Variables

Environment variables are used with the command line interface only.

IFW	Image for Windows uses this variable to supply most of its options. The format of the IFW environment variable is: IFW=option1;option2:value;… The options are given below:
	ATA – Use this option to have the bootable CD/DVD attempt to directly access the IDE hard drive directly instead of using the system BIOS.
	IBXT – When using the Burn Extra Track option you will not be prompted for the last CD during a restore. This option may not work with all CD or DVD drives.
	CDCMZ – If you experience errors or problems when a CD is being closed then you may need to use this option.
	CDRS:*speed* – Used to set the CD read speed. For example: CDRS:8 sets the read speed to 8x.
	CDWS:*speed* – Used to set the CD write speed. For example: CDWS:8 sets the write speed to 8x. NOTE: If you are having problems burning a reliable CD, you may need to slow the write speed down by using this option.
	IAR:*value* – Image Auto Response value. Set this optional value to Y or N to auto respond to 'Y'es or 'N'o prompts and error messages. You can use errorlevel in a batch file to determine if the operation was successful or not.
	To respond to the Unable to obtain a lock Abort/Ignore/Retry message, set the second character of the IAR option to either R, A, or I. For example, IAR:YI.
	NOTE: If you use the "R" setting, the program will appear to be imaging without making progress while it keeps trying to obtain the lock. You will need to click cancel to stop it. If you would like to only respond to the lock message then set the first character of IAR to something other than Y or N, for example "IAR:x". You can use errorlevel in a batch file to determine if the operation was successful or failed.

Command line options

If you have created a batch file, you will probably want to start the process using "start /wait" followed by the imagew program.

```
start /wait imagew
```

To run the program as a different user, use the "runas" command under Win2K/XP to start the batch file.

```
runas /user:administrator imagew.exe [cmdline options]
```

You can also use the Scheduler, the Windows control panel utility that schedules tasks. With NT/2K/XP you may want to use something like SRVANY (included with the NT resource kit) and run it as a service under an appropriate profile.

Writing a compressed image to a file:

`imagew /Ch# d:\filename.img`	(no validation)	H = the source hard drive number from 0 to 7
`imagew /Ch#V d:\filename.img`	(validation)	
`imagew /Ch#VB d:\filename.img`	(byte-for-byte validation)	# = the partition entry id

For most users the partition id will be a number from 1-4.
Volumes will be a number formatted as 0xPVV where P is the extended partition and VV is the volume number in hexadecimal from 01 to FF.

If you're not sure what the partition or volume id is, run image without any parameters and choose create image. The screen that lists the partitions and volumes also will display the id in parentheses as a hexadecimal number. You should prefix that number with a 0x on the command line.

Writing an uncompressed image to a file:

`imagew /Ch# /U d:\filename.img`	(no validation)	H = the source hard drive number from 0 to 7
`imagew /Ch#V /U d:\filename.img`	(validation)	# = the partition entry id
`imagew /Ch#VB /U d:\filename.img`	(byte-for-byte validation)	

Writing a compressed image to a CD drive:

`imagew /Ch# /CDx`	H = the source hard drive number from 0 to 7 # = the partition entry id The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of devices.

Writing an uncompressed image to a CD drive:

`imagew /Ch# /U /CDx`	H = the source hard drive number from 0 to 7 # = the partition entry id The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of devices.

Limiting the file size on creation:

`d:\filename;s`	Replace the s after the ';' with 0 for 2GB, 1 for 698MB, or 2 for 648MB.

Directly accessing files on partitions:

`h#:\filename`	h = the hard drive number from 0 to 7. # = the partition entry id.

Restoring an image from a file:

When you do a command line restore, the restored partition will go to the same hard drive number and physical location on the drive as it was backed up from. If the partition was a volume and there is now no extended partition at that location, it will attempt to create the original extended partition. If it can't create the extended partition, it will be restored as a primary partition. If it was originally a primary partition and an extended partition now encompasses that location, it will be restored as a volume. If an existing partition or volume occupies the same starting location as the partition to be restored, a warning message will be issued before overwriting that partition or volume.

`imagew /R d:\filename.img`	no validation	Restores the image to the same hard drive and location on the hard drive that it was backed up from.
`imagew /RV d:\filename.img`	validation if needed	

Restoring an image from a CD:

`imagew /R1 /CDx`	The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of devices. The optional 1 following the R specifies that the restore destination is the second hard drive (HD1)

Running the Program from a batch file:

`start /wait imagew /c00` `d:\somefile`	Because this is a Win32 program you must use the "start" command with the "/wait" switch as shown in the example.

Creating a bootable CD

As long as CDBOOT.F35 is in the working directory with imagew.exe, an independent bootable CD/DVD will be created when burning directory to a CD/DVD drive. However, the CDBOOT.F35 file will only be able to restore from an ATAPI CD drive on one of the IDE controllers. If you would like to restore from another device, you will need to create your

own diskette image with the appropriate ASPI drivers and autoexec.bat file to execute the image restore.

NOTE: This only applies when booting the CD/DVD created with CDBOOT.F35 -- you'll be able to restore from other CD-ROM drives under Windows.

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(d) SEVERABILITY. If any part or provision of this License is held to be unenforceable for any purpose, including but not limited to public policy grounds, then you agree that the remainder of the License shall be fully enforceable as if the unenforceable part or provision never existed.

(e) NON-ASSIGNMENT. You may not assign this License without the prior written consent of TeraByte, except as part of a sale of all or substantially all of the assets of your business.

(f) NO THIRD PARTY BENEFICIARIES. There are no third party beneficiaries of any promises, obligations or representations made by TeraByte herein.

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10. GENERAL.

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(h) SURVIVAL. The provisions of paragraphs 1(b)(iii) and 5 of this Agreement shall survive any termination or expiration of this Agreement.

Image for Windows – Order Form

Text version in file REGISTER.TXT (see web site for additional pricing information)

Send to:
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Las Vegas, NV 89144

Registration Name:	Date:
Mailing Address:	Phone #:
	Phone #:
	Fax #:
E-mail Address:	PC Brand/CPU Type:
Shipping Address:	
	Primary OS:
How did you learn about Image for Windows?	

Description	Unit Price	Qty	Extended Price
Image for Windows* *Image for DOS is included with your purchase	$26.98		$
Portable Image Set/Network Distribution Image (25 Distribution Computers)	$175.00		$
Portable Image Set/Network Distribution Image (50 Distribution Computers)	$255.00		$
Portable Image Set/Network Distribution Image (100 Distribution Computers)	$377.00		$
Portable Image Set/Network Distribution Image (200 Distribution Computers)	$572.00		$
Sub-Total			$
Shipping and Handling Fees for orders not sent TO YOU via e-mail add $9.95			$
Nevada Residents add applicable sales tax			$
TOTAL CHECK OR MONEY ORDER ENCLOSED*			$

Check or Money Order must be drawn on a U.S. bank in U.S. Dollars.

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