

Image for Windows

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Installation and Getting Started Guide



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ASP Member

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What Is Image for Windows

Image is a Win32 based backup and restore utility that creates snapshot of an entire partition or volume to a set of files or directly to most DVD+RW or CD-R/RW drives. If something should ever happen to that partition or volume, you'll be able to simply restore the snapshot image.

Image for Windows is compatible with the imaging feature of BootIt NG and Image for DOS.

Limitations

Image for Windows requires that the system support Int 13h extensions for use with Win9x/ME. If your computer BIOS limits access to the hard drive for any reason and no drive manager is available to correct the limitation, Image for Windows will also be limited on those OS's.

Requirements

IBM-compatible personal computer with an i80386-compatible microprocessor, Win32 environment with 32MB RAM minimum recommended. Administrator privileges when running on Win NT/2K/XP.

Getting Started

- 1) Visit <http://www.terabyteunlimited.com> to make sure you have the latest version of Image for Windows, as well as the latest support information.
- 2) Install/upgrade Image for Windows on your hard drive by following the steps in installation (see below).
- 3) Read the "Issues to be aware of" section (see page 6).

Installation

Simply execute the included Setup program and follow the prompts.

Settings

Align on End: This option insures that restored partitions are aligned at the end of a cylinder. User should leave this 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.

Environment variables

The environment variables below are used when using the command line switches only.

To change the method used to burn a set of CDs so that it doesn't prompt for the last CD during a restore, set the environment variable IBXT to a value of 1. (i.e. set `ibxt=1`). Use of this setting may not work with all CD-R/RW drives.

You can have Image auto respond to prompts and error messages when creating an image to a file by setting an environment variable IAR to either Y or N (i.e. set `iar=Y`). With this setting all prompts that require press enter are automatically responded to. Prompts that ask a 'Y'es or 'N'o question will be answered with the setting of the IAR variable. You can use `errorlevel` in a batch files to determine if the operation was successful or failed.

Command line options

Use can use `imagew.exe` with command line options. The options are required to be separated by spaces and entered in the order given below. Use the `/?` Command line option for additional command line options not explained here.

Creating a compressed image to a file:

Format 1: `imagew /Ch# d:\filename.img` (no validation)
Format 2: `imagew /Ch#V d:\filename.img` (validation)
Format 3: `imagew /Ch#VB d:\filename.img` (byte-for-byte validation)
Explanation: Replace the h with the source hard drive number from 0 to 7 and the # with the partition entry id. For most users the partition id will be a number from 1-4 or for volumes 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 of 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.

Creating a uncompressed image to a file:

Format 1: `imagew /Ch# /U d:\filename.img` (no validation)
Format 2: `imagew /Ch#V /U d:\filename.img` (validation)
Format 3: `imagew /Ch#VB /U d:\filename.img` (byte-for-byte validation)
Explanation: Same as above.

Creating a compressed image to a CD drive:

Format 1: `imagew /Ch# /CDx`
Explanation: The h and # information is same as above. The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of the devices.

Creating a uncompressed image to a CD drive:

Format 1: `imagew /Ch# /U /CDx`
Explanation: Same as above

Restoring an image from a file:

Format 1: `imagew /R d:\filename.img` (no validation)
Format 2: `imagew /RV d:\filename.img` (validation if needed)
Explanation: Restores the image to the same hard drive and location on the hard drive that is was backed up from.

Restoring an image from a CD:

Format 1: `imagew /R /CDx`
Explanation: The x after /CD is the CD drive number to use. Omit the number (/CD) to get a list of the devices.

Limiting the file size on creation:

Format: d:\filename;s

Explanation: Replace the s after the ';' with 0 for 2GB, 1 for 698MB, or
 2 for 648MB.

Issues to be aware of

- When running under Win NT/2K/XP Pro you must have administrator privileges. Under Win2K/XP you can run as any user by right clicking and choosing the "Run As" option.
- When you are creating an image you shouldn't use the partition being backed up as the location of the image file. This is because the partition is being updated at the same time you're trying to back it up. When you restored the partition the file system wouldn't be in a consistent state.
- If you create a backup without a lock being obtained, that backup may not be in a consistent state if updates to the drive were occurring during the backup.
- When you are restoring an image you can't 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.
- After restoring the system may need to reboot. This is required under certain conditions and determined by the program. If you didn't reboot when asked then the OS would still think the partition and file system was as it was before the restore. This could cause data corruption. You can override a command line restore with /RN but it should only be used by advanced users who know its safe to not reboot.
- 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 from where it was backed up. If it was a volume and there is no extended partition now at that location then it will attempt to create the original extended partition but, if it can't create the extended partition, it will be restored as a primary partition. If it was a primary partition and now an extended partition encompasses that location then it will be restored as a volume. If an existing partition or volume occupies the same starting location as the partition to be restored then, a warning message is issued before overwriting that partition or volume.
- Image doesn't change the SID of Windows NT/2K/XP systems. If you're going to use Image for deployment purposes then you should see the "For Deployment Purposes" under the "Examples of Use" section below. If you'd like to change the SID for WinNT/2K you can download a free utility named NewSID at:
<http://www.sysinternals.com/ntw2k/source/newsid.shtml>
- You can only restore via booting the CD when the CD drive is an ATAPI drive. For SCSI drives you must create your own CDBOOT.F35 file which will load the appropriate DOS, ASPI drivers as well as launch image via autoexec.bat if desired.

Orders, Support, and Licensing

If you continue to use Image for Windows beyond 30 days, you must purchase a "full-use" license for it. It is illegal to continue using Image for Windows -use" license. Once you have purchased a -use" license the software is considered "registered".

You can purchase the "full-use" license on-line by clicking under the Purchase link at <http://www.terabyteunlimited.com> or you can use the order form included towards the end of this document and in a separate file named "REGISTER.TXT".

Support Policy

The primary support communication method will be use of on-line services. The most recent versions of software and information will be available on the TeraByte Unlimited website, <http://www.terabyteunlimited.com>.

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Image for Windows Order Form

Text version in file REGISTER.TXT

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 Las Vegas, NV 89144

Registration Name: _____ Date: _____

Mailing Address: _____ Phone #: _____

_____ Phone #: _____

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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 Image for Windows purchase.	\$26.98		\$
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*			\$

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Check mailed separately. (Please ask your bank to include your name on the memo line of the check.)