

# Image

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## Installation and Getting Started Guide



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ASP Member

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## What Is Image

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

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

## Limitations

Image relies on the BIOS for processing disk functions. If your computer BIOS limits access to the hard drive for any reason and no drive manager is available to correct the limitation, Image will also be limited.

## System Requirements

100% IBM-compatible personal computer with an i80386-compatible microprocessor, 16MB RAM, XMS.

## Getting Started

- 1) Visit <http://www.terabyteunlimited.com> to make sure you have the latest version of Image, as well as the latest support information.
- 2) Install/upgrade Image on your hard drive by following the steps in installation (see below).
- 3) Read the "Issues to be aware of" section (see page 6).
- 4) Read the "Examples of Use" section (see page 7).

## Installation

There isn't much to install. Image itself is just one file named image.exe. Simply extract the image.exe file and use it.

If you are going to burn directly to CD/DVD and want the CD/DVD bootable then extract CDBOOT.F35. Image will look in the current directory for CDBOOT.F35 during the creation of a CD/DVD and if it's found, will use it to create a bootable CD/DVD.

OEM's evaluating creation of a recover CD should extract the CDBOOT.OEM file and rename it to CDBOOT.F35.

## Environment variables

Certain settings are implemented using environment variables. Environment variables are variables stored in the DOS environment as "varname=varvalue". They are set at the DOS command prompt or in a batch file. The "set" command is used to set an environment variable. For example, "set varname=varvalue" will result in a variable named "varname" with the value "varvalue". To display a list of environment variables use the "set" command with no parameters. To remove an environment variable use the "set" command with no value. For example, "set varname=" will remove "varname" from the environment.

Below is a list of the environment variables used by Image:

- IMSG** Image will display the contents of this variable on the screen. Its value must be less than 80 characters.
- IBXT** When this variable is set to one (1) then Image will attempt to burn additional information to the first CD/DVD of an image set. This additional information allows the restore to be started without asking for the last CD to be inserted. Use of this setting may not work with all CD/DVD drives.
- CDCMZ** Set this variable to one (1) if you experience errors or problems when a CD is being closed.
- CDWS** Set this variable to the CD write speed to be used. For example, to set 8x recording set CDWS=8.
- CDRS** Set this variable to the CD read speed to be used.

- IAR** You can have Image auto respond to prompts and error messages when creating an image to a file by setting this variable 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.
- IOBS** If you're having slow network performance it may be to do bugs or compatibility issues in the DOS NIC drivers. Use this variable to see if it solves your performance issues. Set it to a value of A (for auto determine best value), 1, 2 or 3 (i.e. set IOBS=A).

## Command line options

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

### **Creating a compressed image to a CD drive:**

```
Format 1:      image /Ch# /CDx                    (ATAPI)
Format 2:      image /Ch# /CDSx                   (ASPI)
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: image /Ch# /U /CDx (ATAPI)  
Format 2: image /Ch# /U /CDSx (ASPI)  
Explanation: Same as above

**Restoring an image from a file:**

Format 1: image /R d:\filename.img (no validation)  
Format 2: image /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: image /R /CDx (ATAPI)  
Format 2: image /R /CDSx (ASPI)  
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 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.
- When you are restoring an image you shouldn'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 will reboot. This is required because partitions and file system being used by the operating system have changed. If you didn't reboot 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 it's 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.
- When booting a restore CD you should ensure all other CD drives do not contain a disc otherwise the wrong CD drive may be chosen.
- If you're having problems getting a reliable CD burned you may need to slow the write speed down by using the CDWS environment variable.
- If the validation appears to hang it may actually be do to problems trying to read the media. If using CDs/DVDs then you should try a slower speed if the media is not being reliably written.

## Examples of Use

### Local Use

Create a special image drive (preferably on another physical drive) then setup the advanced program settings of a shortcut to use MS-DOS mode. Later, burn the image files to CD or copy to a network drive for safekeeping.

Setup a shortcut to use MS-DOS mode (advanced program settings under properties of the shortcut) and save directly to an ATAPI CD drive.

### Across the network

Create a network diskette and create or restore the image file to/from a mapped network drive.

Use push technology (not included with Image) to automatically start the backup or restore across the network.

### For Deployment Purposes

Use Microsoft's SYSPREP tool along with Image for deployment purposes. You should setup the base machine so that the last partition ends at one track less than 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:

**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](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>

**With BootIt NG**

Setup a special partition with batch files to restore certain partitions from a network or local drive. At the end of the batch file have it run the DOS version of BootNow to boot some partition. Enable BootNow support in BootIt NG and setup boot items to automatically run the correct batch file (via keystrokes). Now you can have a certain partition rebuilt and booted by just selecting the item from the boot menu.

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For example, if you purchased a Portable Image Set license to make Portable Image Sets for distribution to up to 300 computers: *You may* make an unlimited number of Portable Image Sets, as long as the total number of computers receiving images under any and all Portable Image Sets does not exceed 300. *You may not*, however, distribute one Portable Image Set to one group of 300 computers, and then distribute a second Portable Image Set to a group of 300 computers that includes only 150 computers from the first group, because this would result in overall distribution to 450 computers, thus exceeding the 300 computer license. You may not make more than one copy of each Portable Image Set, except for a single copy per set strictly for backup and archival purposes. For the right to distribute Portable Image Sets to greater numbers of computers, you will need to purchase additional license rights from Terabyte Unlimited.

3. **"NETWORK DISTRIBUTION IMAGE" LICENSE.** If, in addition to the standard Licensed Software license, you purchased a "Network Distribution Image" license, then you have additional license rights to perform restores across the computers in the network covered by the license. Such restores may be performed by distributing the partition images that you create using the Licensed Software ("Network Distribution Images"), together with copies of the portion of the Licensed Software needed to perform the restore ("Restore Software"), as follows:

(a) Each partition image created using the Licensed Software, when stored in a form distributable via a computer network, is a "Network Distribution Image."

(b) You may create an unlimited number of Network Distribution Images on any computer covered by your standard Licensed Software license, and you may use and distribute each such Network Distribution Image, together with the Restore Software, as described in (c) below, to perform restores for up to the total number of "distribution computers" indicated on your Network Distribution Image license.

(c) For each restore, you may distribute the Network Distribution Image, together with the Restore Software, only through a single server computer ("distribution server") attached to a computer network (the "distribution network"), and you may distribute only one copy each of the Network Distribution Image and the Restore Software to each distribution computer.

Note that: (i) The distribution server needs to be one of the computers covered by your standard license to use the Licensed Software, and (ii) the Restore Software may only be used in conjunction with the Network Distribution Images to perform the network restores described in this Section 3, and may not be kept installed in the distribution computers after any restore is completed, nor used for any purpose not expressly described in this Section 3; if you wish to acquire greater license rights to use the Licensed Software, you will need to purchase additional license rights from Terabyte Unlimited.

(d) Once you distribute a Network Distribution Image or the Restore Software from the distribution server to any computer on the distribution network, that computer becomes one of the "distribution computers" for purposes of your Network Distribution Image license, and it must be counted towards the total number of "distribution computers" under that license for each subsequent distribution via any Network Distribution under that license, whether or not that computer receives an image under that subsequent distribution.

For example, if you purchased a Network Distribution Image license to make Network Distribution Images for distribution to up to 300 distribution computers: *You may* make an unlimited number of Network Distribution Images, as long as the total number of computers receiving any and all Network Distribution Images does not exceed 300. *You may not*, however, distribute one Network Distribution Image or copies of the Restore Software to one group of 300 computers, and then distribute a second Network Distribution Image and copies of the Restore Software to a group of 300 computers that includes only 150 computers from the first group, because this would result in overall distribution to 450 computers, thus exceeding the 300 computer license. You may not make more than one copy of each Network Distribution Image, except for a single copy per set strictly for backup and archival purposes. For the right to distribute Network Distribution Images to greater numbers of computers, you will need to purchase additional license rights from Terabyte Unlimited.

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#### 10. GENERAL

(a) **ENTIRE AGREEMENT.** This Agreement constitutes the entire agreement between you and TeraByte in regard to the subject matter herein, and supersedes all previous and contemporaneous agreements, proposals and communications, written or oral between you and TeraByte. No amendment of this Agreement shall be effective unless it is in writing and signed by duly authorized representatives of both parties.

(b) **NON-WAIVER.** Waiver by TeraByte of any violation of any provision of this License shall not be deemed to waive any further or future violation of the same or any other provision.

(c) **LAW AND JURISDICTION.** This License and any dispute relating to the Licensed Software or to this License shall be governed by the laws of the United States and the laws of the State of Nevada, without regard to U.S. or Nevada choice of law rules. You agree and consent that jurisdiction and proper venue for all claims, actions and proceedings of any kind relating to TeraByte or the matters in this License shall be exclusively in courts located in Las Vegas, Nevada. If a court with the necessary subject matter jurisdiction over a given matter cannot be found in Las Vegas, then jurisdiction for that matter shall be exclusively in a court with the proper jurisdiction as close to Las Vegas as possible, and within Nevada if possible.

(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.
- (g) **HEIRS AND ASSIGNS.** This Agreement shall be binding on and shall inure to the benefit of the heirs, executors, administrators, successors and assigns of the parties hereto, but nothing in this paragraph shall be construed as a consent by TeraByte to any assignment of this agreement except as provided hereinabove.
- (h) **SURVIVAL.** The provisions of paragraphs 1(b)(iii) and 5 of this Agreement shall survive any termination or expiration of this Agreement.

**Image Order Form**

Text version in file REGISTER.TXT  
 (see website for more pricing details)

Remit To:

TeraByte Unlimited  
 1350 Town Center Dr. #1049  
 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:

Description	Unit Price	Qty	Extended Price
Image	\$18.95		\$
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.

\* If you do not have a US Checking account, you can send an international postal money order or have your bank issue a check on a U.S. bank in U.S. Dollars. Be sure to send this order form whichever method you choose.

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