

IMAGE

The Diskette Imaging Utility

Version 1.30
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Digital Intelligence, Inc

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IMAGE

The diskette duplication utility

This utility is designed to make file-based images of the physical contents of a diskette. The image files can be used to create exact duplicate images of diskettes. This requires that all data on the diskette be preserved and restored, not just the files. IMAGE is capable of generating and restoring images with or without the use of data compression. It can also be used to create self-restoring disk images. The integrity of the image files created by this utility is protected by internal MD5 Checksums. Additionally, features have been incorporated which may be useful to computer forensic personnel.

IMAGE is completely self-contained. All functionality is provided in a single executable. You don't need to maintain separate programs to create images, restore images, or generate self-restoring images. IMAGE was specifically designed to be very intuitive and require as few command line switches as possible.

1. Basic Usage:

IMAGE

Executing IMAGE with no command line options will display on-line help.

IMAGE A: DISK.IMG

Identifying a diskette drive as the first parameter and a file name as the second parameter will create a physical image of the diskette in the identified drive and save it in the specified file.

IMAGE DISK.IMG A:

Identifying a file name as the first parameter and a diskette drive as the second parameter will restore the physical image stored in the specified file to the diskette in the specified drive.

IMAGE DISK.IMG

Specifying an image file as the only parameter on the command line will generate an informational listing of the contents of the image.

2. Adding NOTES or a TITLE to an Image:

You may assign a title or notes to an image when you create it by using the "/N" switch. You can specify a title or notes on the command line by using the "/N" switch as in the following example:

IMAGE A: W98BOOT.IMG /N:"Windows 98 Boot Disk"

If you prefer to be prompted for the desired notes simply specify the "/N" switch without any text on the command line:

IMAGE A: W98BOOT.IMG /N

3. Using the REPEAT switch

a. When CREATING Images:

If you have the need to create images of multiple diskettes, you can use the "/R" switch and specify a file name which does not include an extension. IMAGE will automatically append an extension to the file name as the disks are imaged (.001, .002, .003, etc). IMAGE will prompt you to insert each disk as necessary and you may press 'ESC' to end the operation:

IMAGE A: EDSDISKS /R

If you use both the Repeat (/R) and Notes (/N) options, IMAGE will automatically title your images. If you specify the Note information on the command line, IMAGE will automatically append " (DISK 1)", " (Disk 2)", etc to your image notes as each disk is created:

IMAGE A: EDSDISKS /R /N:"Software Download Archives"

<u>Image File</u>	<u>Image Notes</u>
EDSDISKS.001	Software Download Archives (Disk 1)
EDSDISKS.002	Software Download Archives (Disk 2)
EDSDISKS.003	Software Download Archives (Disk 3)
And so on...	

If you specify both the Repeat (/R) and Notes (/N) options, but do not provide any note information on the command line, IMAGE will prompt you for the info as each disk is imaged:

IMAGE A: EDSDISKS /R /N

- b. When RESTORING Images:

If you use the Repeat option (/R) and specify an image file name which includes an extension, you can restore a single image to multiple disks:

IMAGE W98BOOT.IMG A: /R

If you specify an image file that does not include an extension, IMAGE will attempt to restore multiple image files (.001, .002, .003, etc) which were created using the Repeat option:

IMAGE EDSDISKS A: /R

4. Disabling Image Compression (FLAT)

By default, IMAGE will create files that are compressed using PKZIP compatible data compression algorithms. If so desired, you can disable image compression by specifying the "/F" option:

IMAGE A: MYDISK.IMG /F

5. SELF-RESTORING Images

- a. CREATING

IMAGE will automatically create a self-restoring image file without requiring additional conversion programs or command line switches. Simply specify a file name which includes an ".EXE" extension when creating the image:

IMAGE A: W98BOOT.EXE /N:"Windows 98 Boot Disk"

- b. RESTORING

If you would like to get an informational listing of the image contained inside a self-restoring image, simply run the image file without any command line options:

W98BOOT

```
Valid IMAGE Ver 1.10 File:    C:\TEMP\W98BOOT.EXE
Image Notes:                Windows 98 Boot Disk
Created:                    Sat 21 Nov 1998 at 05:43:52 PM
MD5 Checksum:              07fe1b7f2f5b3ef0c2d5b96c5d6992be
Compressed:                 Yes
Source drive Cylinders:    80
Source drive Heads:        2
Source drive Sectors:      18
```

To restore the image to a diskette, simply specify the desired drive:

W98BOOT A:

To restore the image to multiple disks, add the "/R" switch:

W98BOOT A: /R

6. Creating and Restoring RAW Images

IMAGE will create and restore RAW Image files. A RAW Image file is an uncompressed file which simply contains the contents of every sector on the disk. You may use the /IMG option to create and restore RAW image files. Please note that RAW image files do not contain any header information which is generally used to store information about the image itself (notes, MD5 checksums, creation dates, drive geometry, etc). RAW Image files are simply the sector-by-sector contents of the disk copied linearly into a file. As such, the notes (/N) and Self Extracting (*.EXE) options may not be used with RAW image files.

7. Forensic Notes

If you would like to use IMAGE to create images of a multiple floppies at a crime scene, you might want to use the REPEAT and NOTES options to include case info in the image files:

IMAGE A: 981121A /R /N:"Case 981121a"

<u>Image File</u>	<u>Image Notes</u>
981121A.001	Case 981121a (Disk 1)
981121A.002	Case 981121a (Disk 2)
981121A.003	Case 981121a (Disk 3)
And so on...	

On the other hand, you might want to include unique note information for each individual disk. Using the NOTES option without specifying information on the command line will give you the opportunity to record unique information for each disk as it is imaged (such as information which appears on each disk's label):

IMAGE A: 981121A /R /N

You could then restore these images to a set of floppies back at the lab, by using the REPEAT switch and specifying the baseline image file name:

IMAGE 981121A A: /R

If you would like to create images of multiple floppies and retain the ability to do text and header searches on the image files without having to restore them, simply specify the FLAT switch to disable data compression:

IMAGE A: 981121A /R /N /F

Please note that image files created with IMAGE contain an internal MD5 checksum to ensure the integrity of the respective information. In the event that the contents of the image file are corrupted a "Checksum Verification Failure" will be displayed at restoration along with the MD5 values stored in the file header and associated with the data itself.