

# DropDMG 1.1 Manual

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## 1 Introduction

DropDMG is a utility for creating disk images in Mac OS X's device image (DMG) format. Disk images are a wonderful way of packing entire folders or disks into a single file, either for transport across the Internet or simply for archival. They are typically created using Apple's Disk Copy utility, and Disk Copy can also "mount" an image—make its contents accessible as if they resided on an inserted CD-ROM.

Although Disk Copy is a standard component of Mac OS X, it makes simple tasks more time consuming than they should be. To create a compressed image from a folder using Disk Copy, you must create a blank read-write image of the appropriate size (specifying the volume name and location for the saved file), manually copy the folder to the image, unmount the image, convert the image to a compressed format, and finally delete the original (uncompressed) image. With DropDMG, you simply drag and drop the folder onto the DropDMG icon<sup>1</sup>.



Here's a brief rundown of DropDMG's features:

- Quick and easy creation of compressed disk images. Just drag and drop a folder onto the DropDMG application's icon.

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<sup>1</sup>Really. There aren't any dialog boxes; it's even easier than in Mac OS 9.

- Creates DMGs in the zlib- and ADC-compressed formats, as well as Mac OS 9’s read-only compressed NDIF (.img) format.
- Make encrypted compressed disk images.
- Package-savvy.
- Reliability. Like all good Mac applications<sup>2</sup>, DropDMG has no trouble handling folders with spaces, quotation marks, dollar signs, or other “special” characters.
- Clean and simple interface that stays out of your way and respects your screen real estate.
- Create images using AppleScript.
- Runs natively on Mac OS X.

## 2 Installation

DropDMG has been developed and tested on Mac OS X 10.1.2. I do not have the resources to test it on older systems, although I suspect it will work fine on Mac OS X 10.1 or later.

Double-click the `DropDMG-1.1.dmg` file to mount the image with Disk Copy. If you like, you can run DropDMG directly from the image to test it out. To install, simply copy the application to your hard disk, e.g. into `/Applications/Utilities`.

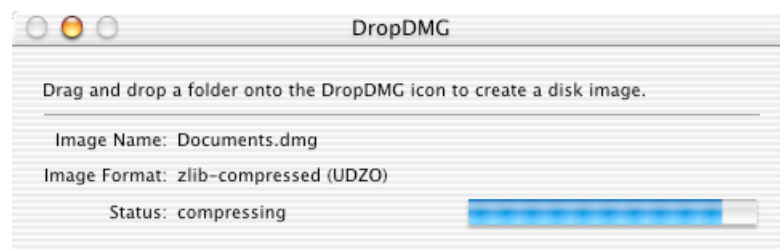
There’s no need to copy this manual to your hard disk. A copy of it is built-into DropDMG, and you can access it by choosing `DropDMG Help` from the `Help` menu.

## 3 Using DropDMG

### 3.1 Making Disk Images

There are several ways to create disk images using DropDMG. All of them use the current preferences to determine the image format and whether to use encryption.

**Drag and Drop** Drag and drop one or more folders onto the DropDMG icon, either in the Finder or in the Dock.




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<sup>2</sup>But, sadly, unlike many quick-and-dirty utilities and shell scripts.

**Menu** Use the Make Image From Folder... command in DropDMG's File menu to select a folder.

**AppleScript** Get a folder reference and tell DropDMG to open it:

```
tell application "Finder"
  -- ask the user
  set myFolder to choose folder

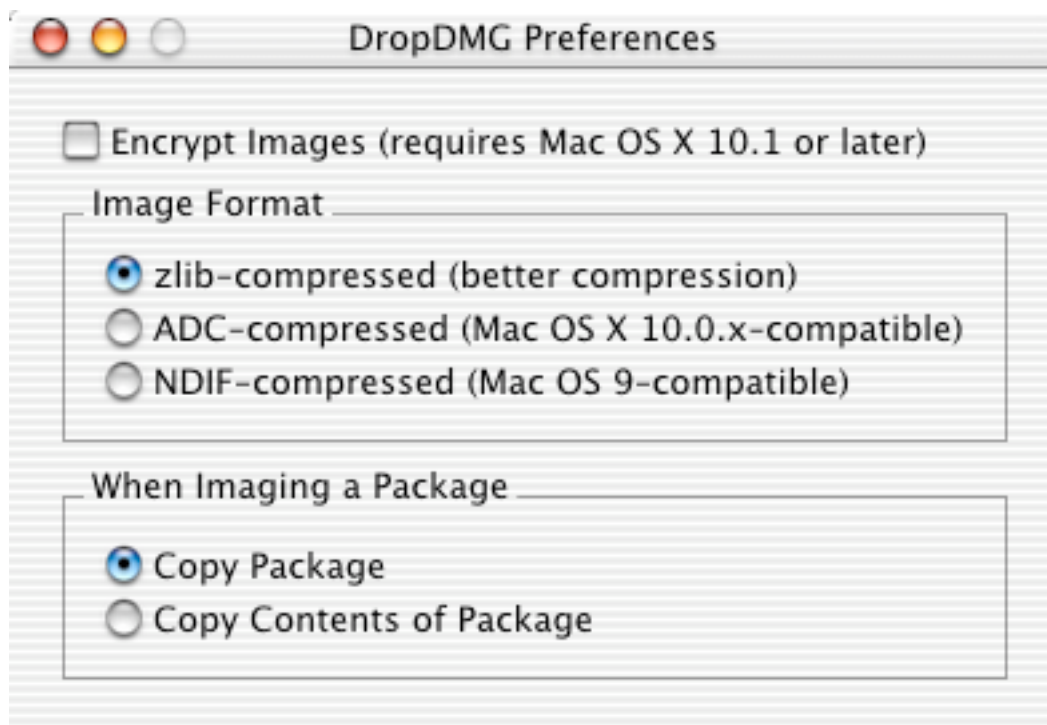
  -- or use a path
  alias "HD:Users:me:folder:"
end tell
tell application "DropDMG"
  open myFolder
end tell
```

**Command-Line** Use open and pass the folders as arguments:

```
open -a DropDMG.app ~/path/to/a/folder ~/another/folder
```

## 3.2 Setting the Preferences

The options in the preferences window take effect immediately.



### 3.2.1 Encryption

Encrypted images require a password for access. They only work on Mac OS X 10.1 and later.

### 3.2.2 Image Format

**zlib-compressed** zlib creates the smallest disk images, but they only work on Mac OS 10.1 and later.

**ADC-compressed** ADC images are a bit larger and slower than zlib images, but they work on Mac OS X 10.0 and later.

**NDIF-compressed** NDIF images work with Disk Copy 6.x on Mac OS 9, as well as on Mac OS X. They have resource forks and so must be encoded with a utility such as StuffIt, MacBinary, or BinHex before they are shared on the Internet. NDIF images do not support encryption and they are limited to 2 GB.

### 3.2.3 Packages

Some Mac OS X files, such as applications, are actually special folders called packages. The system presents packages to the user as a single file, but they're actually stored on disk as folders. Normally, when DropDMG makes an image from a folder it copies the contents of the folder into the image; that is, the mounted image behaves just like the original folder did.

Since packages are folders, you can make images of them with DropDMG. However, if DropDMG proceeds as usual, when you mount an image that was created from a package, the Finder will think that the mounted image *is* a package. It will show the package icon instead of the disk image icon, but it won't let you double-click the mounted image to access the package (e.g. launch the application). You might think that you could drag the mounted image to your hard disk to launch the application from there, but the Finder will create an alias instead (unless you know to hold down Option).

Therefore, by default, DropDMG recognizes when you are imaging a package and gives you a disk image with the package inside it, instead of making an image *of* the package. To disable this feature, and thus have DropDMG treat all folders consistently, click the Copy Contents of Package radio button.

## 4 Contact Information

The DropDMG Web site is located at <http://www.c-command.com/dropdmg/>. Questions about DropDMG may be sent to <mailto:support@c-command.com>. I'm always looking to improve DropDMG, so please feel free to send any feature requests to that address.

To make sure that you have the latest version of DropDMG, you may wish to subscribe to the DropDMG Announcements mailing list. To sign up, send an e-mail to <mailto:requests@c-command.com> with subject `subscribe dropdmg-announce`. The traffic on this list is very low, only one message per new version of DropDMG.

## 5 Registering

DropDMG is shareware. If you find yourself using DropDMG beyond a reasonable trial period, you must register it. Registration costs \$5 (US) and entitles you to free updates and support.

To register, go to <http://store.eSellerate.net/s.asp?s=STR804431608>. Soon after paying, you'll receive an e-mail with your serial number. Enter it in the Registration window to personalize your copy of DropDMG.



This is the honor system. If you use DropDMG without registering, I probably won't know. However, registering will give me an incentive to continue updating and enhancing DropDMG, and to write more Mac software. And you won't have to look at the "Unregistered" in the status window anymore.

## 6 Notes and Limitations

- DropDMG always saves images at the same level as the folder being imaged. The volume must have free space at least equal to twice the size of the folder, because DropDMG needs some free space to compress the image.
- Dragging a volume onto DropDMG creates an image that contains the volume's *contents*, not an image of the *device*. Use Disk Copy to create images of devices, e.g. to make an image of a bootable CD-ROM.
  - Images of volumes will be saved in `/Volumes`, which is only accessible using the Finder's `Go to Folder...` command (or Terminal).
  - DropDMG cannot create an image of the startup volume. (You'll get a slightly confusing error message.)
- Locked files in the source folder end up unlocked on the image. (This appears to be a bug in Cocoa.)

Future versions of DropDMG may address these issues.

## 7 Version History

### 1.1—January 28, 2002

- Supports ADC and NDIF compression for compatibility with Mac OS 10.0.x and Mac OS 9, respectively.
- Supports encrypted compressed images in the zlib and ADC formats.
- Optionally detects packages so that you end up with a mounted image *containing* the package instead of a mounted image that the Finder thinks *is* a package.
- Copies locked files to images (instead of stopping with an access error).
- Images' logical sizes are smaller; this should slightly reduce their physical sizes and reduce mount times.
- Accepts drops of all file types (including packages); if DropDMG doesn't know how to handle a dropped file it will just ignore it.
- The Make Image From Folder... menu command lets you choose packages and subfolders of packages (instead of just vanilla folders).
- Minor UI tweaks.

### 1.0—January 21, 2002

- First public release.

## 8 Legal Stuff

DropDMG and this manual are copyright © 2002 Michael Tsai, <mailto:mjt@c-command.com>. All rights reserved.

Please distribute the unmodified `DropDMG-1.1.dmg` file on the Web, LANs, compilation CD-ROMs, etc. Please do not charge for it (beyond a reasonable cost for media), or distribute the contents of the image file in isolation.

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