

CRYSTALIDEA AnyToISO

Version 3.3

User Guide

www.crystalidea.com

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1. Program Description

AnyToISO is the all-in-one solution to create ISO files from everything: from other images, from CD/DVD/Blue-ray disk, from local folders. Moreover it can extract almost any type of CD/DVD image file found in Internet.

The main problem it solves is familiar to many computer users. Many programs can create a disk image in its own format. This is especially true for commercial products. For example, in order to burn a NRG image on a disk you need only original Nero program.

With AnyToISO you can mount any CD/DVD image found in Internet to your Parallels/VMWare virtual machine or burn it on an optical disk after conversion to ISO.

1.1. AnyToISO Features

- Convert to ISO or extract all most popular CD/DVD/Blue-ray images found in Internet today
- Make ISO images from CD/DVD/Blue-ray disks
- Make ISO images from local folders
- Extract all kinds of ISO images
- Extract DMG files (Apple disk image files)
- Extract DEB and RPM Linux images
- Command line support (batch mode)
- Available for Windows and Mac

1.2. Program editions

AnyToISO is available in two editions: **Lite** and **Pro** (Professional). Lite version is totally free but it cannot deal with files greater than a normal CD size (870 MB). In order to work with DVD/Blue-ray images one should upgrade to a Pro version. Pro version customers have the highest priority level in technical support. Windows version of AnyToISO can also be portable.

1.3. Information about ISO Format

An ISO file, often called an ISO image, is in fact an "image" of an entire CD or DVD. The entire contents of a disc can be perfectly represented in a single ISO file. This format is supported by many software vendors. ISO image files typically have a file extension of .iso. The name ISO is taken from the ISO 9660 file system used with CD-ROM media, but an ISO image can also contain a UDF file system since UDF is backward-compatible with ISO 9660. Apple Inc. also stores its own HFS+ file system in ISO images.

2. Program Installation

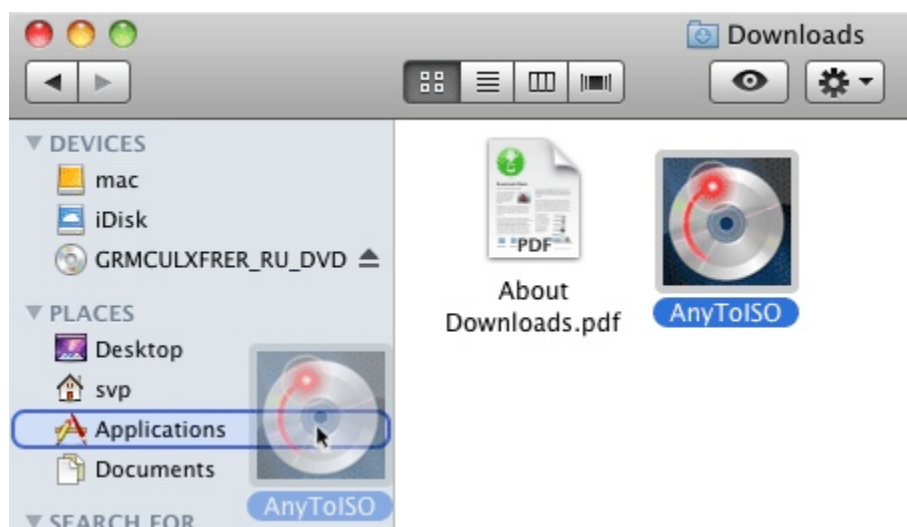
Windows:

Windows version of AnyToISO comes as single setup file («anytoiso.exe»). After launching it you will be guided by a step-by-step installation wizard.



Mac OS X:

Mac OS X version of AnyToISO comes as a universal binary program, packed in a zip file («anytoiso_mac.zip»). In order to install simply unpack the archive and drag AnyToISO to the Applications folder.



2.1. System Requirements

- Windows:

Microsoft ® Windows® 2000/XP/2003/Vista/7 including 64-bit versions (x64)

Intel ® Pentium® 1 GHz, 256 MB RAM, 15 M6 of free disk space

- Mac:

Apple ® Mac OS X® 10.5 and higher including Snow Leopard/Lion support

256 MB RAM, 40 M6 of free disk space

3. Upgrading to Pro version

Upgrading to Professional version of AnyToISO will give you:

- No limitations on file size

You can convert, extract files of any size as well as make ISO from a CD/DVD/Blue-ray disks

- Priority customer support
- Instant delivery of registration code upgrading the software to PRO version

3.1. Purchasing Pro license

Professional license must be purchased for each computer on which you are going to use the program. Volume discounts apply upon purchasing more than a single license. Discounts are also available when purchasing AnyToISO for both platforms (Windows and Mac).

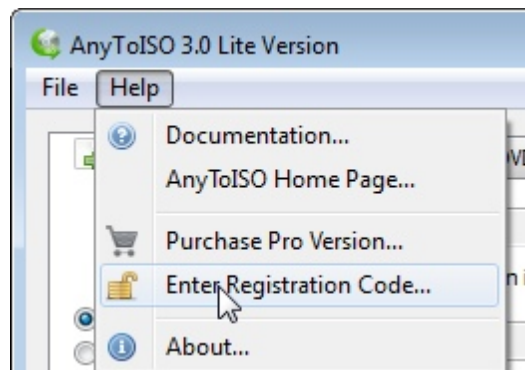
All the required information is available on the developer website: <http://www.crystalidea.com/purchase>.

For more questions, you can contact our sales support service at sales@crystalidea.com.

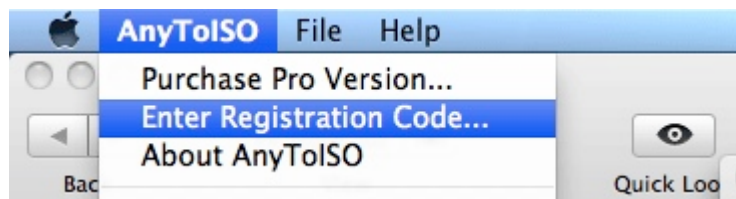
3.2. Entering registration code

Immediately after purchasing you will receive an e-mail with the registration key that should be entered in AnyToISO in order to upgrade Lite version to Pro. The key can be entered in the “Enter Registration Code” menu:

Windows:



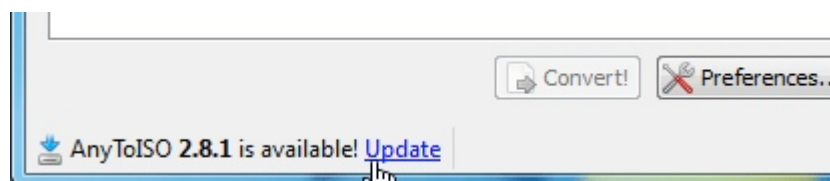
Mac OS X:



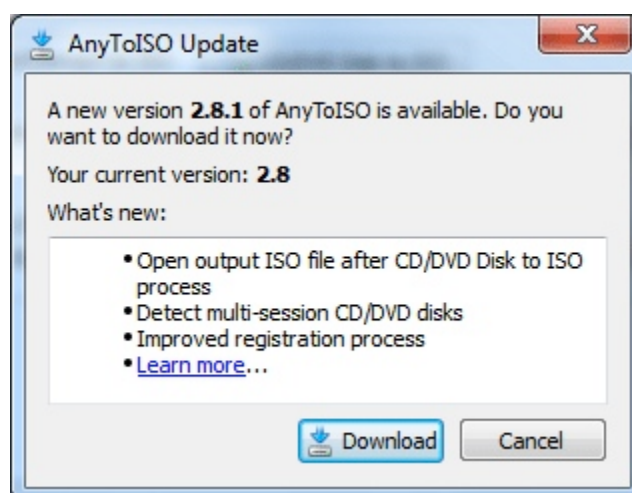
4. Program Updates

Timely installation of program updates is extremely important because they generally designed to fix problems as well as introduce new features. The update feature is available on both Windows and Mac OS X.

AnyToISO checks for available updates on the program start-up by default. Updates information is obtained from the developer website in Internet. If a new version of AnyToISO is available you will be immediately notified about it:



If you click on the “Update” link you see an update dialog:



(Screenshot is just a demonstration)

In order to update AnyToISO:

- Download latest version of AnyToISO at <http://www.crystalidea.com/anytoiso>
- No removal of previous version is required. Make sure that AnyToISO is not running and run the setup in Windows (Mac users simply overwrite AnyToISO in the Applications folder). Pro registration of AnyToISO will remain intact

Complete release history of AnyToISO is available at <http://www.crystalidea.com/anytoiso-version-history>

5. File Extract/Convert to ISO

The user should simply select a source file and destination ISO image (destination folder if extraction mode is selected). When extracting a file if the destination folder doesn't exist it will be created.

- You can drag a source image file directly to the main window of the program. It can be dragged either on Windows from Explorer or from Finder program on Mac.
- Convert/Extract operation can be stopped at any time.
- When the convert operation is finished you can open the resulting ISO file in Windows (mount it in Finder on Mac). When the extract operation is finished you can browse the destination folder.

5.1. Supported Disk Image Formats

File format (extension)	Supported operations	Description
B5I/B6I	Convert/Extract	Disc image created with BlindWrite version 5 and 6 respectively.
BIN, BIN/CUE	Convert/Extract	Disk image format, supported by programs like Roxio Toast, NTI Dragon Burn, Roxio Easy Media Creator, Golden Hawk Technology CDRWin, Daemon Tools, IsoBuster, EZB Systems UltraISO. BIN/CUE AudioCDs images can be only extracted to a folder (to separate WAV files).
CDI	Convert/Extract	Disc image created using DiscJuggler program.
DAA	Convert/Extract	PowerISO compressed image. The format is completely proprietary. The image can be password protected (encrypted) and splitted into multiple volumes (currently not supported by AnyToISO).
DEB	Extract	Debian (Ubuntu) Linux image, compressed format.
DMG	Convert/Extract	Apple Macintosh OS X Disk Copy Disk Image File (the format is completely proprietary), uses compression and encryption.
GBI	Convert/Extract	gBurner compressed image. The format is completely proprietary, the image can be password protected (encrypted) and splitted into multiple volumes.
IMG	Convert/Extract	CloneCD IMG files and FAT32/FAT16 IMG hard disk images (extract only).
ISO	Extract	CD/DVD optical disk image (currently supports ISO9660/UDF/Apple HFS+ file system and Microsoft XBOX image). There's support of multiple file systems inside ISO (you can select which file system to extract).
ISZ	Convert/Extract	UltraISO image can be compressed and/or encrypted (password protected), segmented images are supported as well.
MDF/MDX	Convert/Extract	Disc image created using Alcohol (120%) program.
NRG	Convert/Extract	Disc image created with different Nero commercial software. NRG images of AudioCDs can be only extracted to a folder.
PDI	Convert/Extract	Image created by the InstantCopy program (a part of Pinnacle Instant CD/DVD Suite)
RPM	Extract	Compressed Linux image (RedHat/Mandriva/Fedora/Suse and others)
UIF	Convert/Extract	CD/DVD image file created using MagicISO program. This format supports compression and password protection (password protection is not supported in AnyToISO at the moment).

Audio CD Images support

Some programs have support of creating an image of Audio CD (NRG, BIN/CUE format or PDI format). These Audio CD images cannot be converted to ISO format due to the ISO format restrictions. AnyToISO can extract such images to folder to separate WAV files (one for each track on a disk). One can convert them to MP3/OGG format with 3rd party software later on.

DMG Format notes

When converting DMG files to ISO the resulting ISO image is usually formatted with HFS+ file system (Apple), and it can be later extracted with AnyToISO.

But sometimes DMG image can be an image of NTFS or FAT32 hard disk, thus the resulting ISO is a hard disk image (not an ISO in fact). Rename the extension from ISO to IMG. IMG FAT32 (not NTFS) files can be extracted with AnyToISO. In order to extract NTFS IMG files please other specific software. Direct extracting of such DMG files is not possible.

6. CD/DVD Disk to ISO

This function allows you to create ISO images from CD/DVD/Blue-Ray disks – simply select a CD/DVD drive from the list and press the 'Make ISO' button. Use the 'Refresh' button to update the list of available drives/disks.

The resulting ISO image will contain exactly the same file system as it appears on the source disk. Sometimes there are multiple file systems on a single disk, for example ISO 9660 and UDF. HFS+ file system (MAC OS file system) also can be found on disks. The final ISO image can be later extracted with AnyToISO or burned on another disk.

One can also choose creating of **BIN/CUE** (raw images of disks) instead of ISO. It allows creating images of disks with multiple tracks, e.g. Audio CD disks.

Audio CD disks

Audio CD disk cannot be converted to ISO image due to the ISO format restrictions – ISO images contain only single track of data (not raw audio). Use BIN/CUE conversion for such disks.

Protected DVD disks

Some DVD disks (video) are copy-protected in order not to violate owner's copyrights. You cannot make ISO from such disks.

7. Folder to ISO

This function allows you to create ISO images from a local folder on your computer.

Just select a source folder (it's supposed that it contains the entire contents of the destination optical disk image), destination ISO file and its volume label.

Default file systems are ISO 9660, Joliet (ISO 9660 extension to support lower case letters and long file names) and UDF. Configuring file systems and their parameters can be done in the special dialog after clicking the Settings button.

ISO 9660, also referred to as CDFS (Compact Disc File System), is a file system standard published by the International Organization for Standardization (ISO) for optical disc media. It aims at supporting different computer operating systems such as Windows, classic Mac OS, and Unix-like systems, so that data may be exchanged.

The standard has three different options for file system and file names.

- 8.3 DOS file names (11): (Level 1) File names are limited to eight characters with a three-character extension, using upper case letters, numbers and underscore only. The maximum depth of directories is eight.
- Longer names (180): (Level 2) File names are not limited to 11 characters (the 8.3 format) but can be up to the maximum allowed by the 1 byte counter in the directory entry and the filename length byte counter. Typically, this is close to 180 characters, depending on how many extended attributes are present.
- ISO 9660:1999 is the latest update to the ISO 9660 standard. It improves on the restrictions imposed by the older standard, by extending the maximum path length to 207 characters, removing the eight-level maximum directory nesting limit, and removing the special meaning of the dot character in filenames.

Joliet is the name of an extension to the ISO 9660 file system.

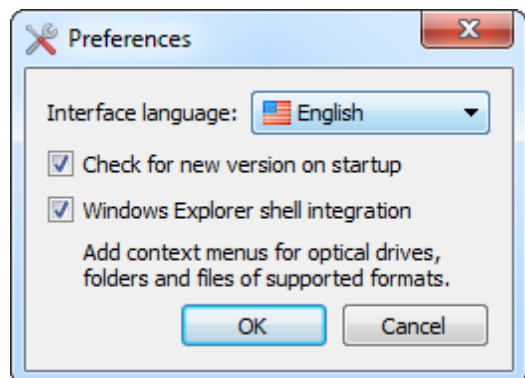
Joliet accomplishes this by supplying an additional set of filenames to be encoded in UCS-2. These filenames are stored in a special supplementary header that is safely ignored by ISO 9660-compliant software, thus preserving backward compatibility. The specification only allows filenames to be up to 64 Unicode characters in length. However, filenames up to 110 characters in length do not appear to cause any problems.

UDF or Universal Disk Format, an operating-system-independent file system commonly used on DVD and other digital media. It natively supports Unicode and long files names. In practice, it has been most widely used for DVDs and newer optical disc formats, supplanting ISO 9660.

8. Preferences

AnyToISO preferences dialog allows you to switch interface language and enable/disable Windows Explorer shell integration:

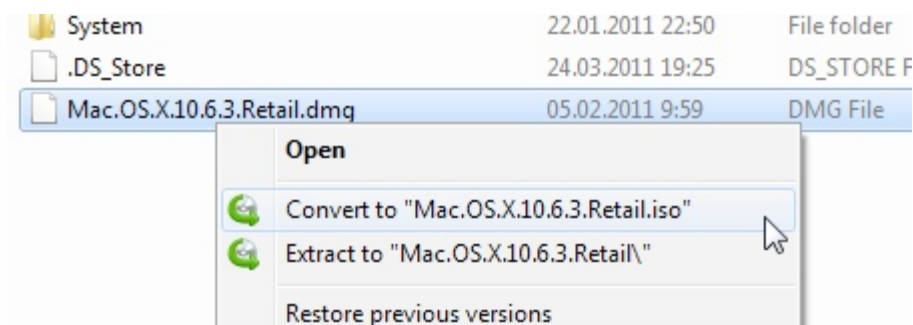
Windows:



Mac OS X:



Windows shell integration means adding of context menus to files (supported only), folders and disks:



More information: AnyToISO integraion with [Explorer](#) and [Apple Finder](#).

9. Command Line Support

AnyToISO command line usage:

- **Convert an image to ISO**

```
anytoiso /convert [infile] [outfile]
```

infile - input image file

outfile - output ISO file

Examples:

```
anytoiso /convert image.uif image.iso
```

- **Extract a file**

```
anytoiso /extract [infile] [outfolder]
```

infile - input image file

outfolder - destination folder

When extracting an ISO file with multiple file systems, default file system is UDF. But you can optionally specify the file system to extract in the last /fs parameter. Possible values are *iso9660*, *udf* and *hfs*. See examples.

Examples:

```
anytoiso /extract image.uif D:\image_extracted
```

```
anytoiso /extract image.iso D:\image_extracted /fs:udf
```

(always choose udf if multiple file systems found)

- **Create ISO or BIN/CUE from CD/DVD/Blue-ray disks**

Example:

```
anytoiso /fromcd F: image.iso
```

If you want to create BIN/CUE image simply specify the .bin extension:

```
anytoiso /fromcd F: image.bin
```

- **Create ISO from a local folder**

```
anytoiso /fromdir [infolder] [outfile] /label:<label> /fs:<fs>
```

infolder - input folder

outfile - output ISO file

It's good to specify a volume label of your resulting ISO. It's also possible to specify destination file systems inside the resulting ISO file (default file systems are iso9660+joliet+udf) using the /fs parameter. Possible values are iso9660, joliet and udf.

Examples:

```
anytoiso /fromdir D:\folder image.iso /label:MY_IMAGE /fs:iso9660+joliet
```

```
anytoiso /fromdir D:\folder image.iso /label:MY_IMAGE /fs:udf
```

- **Display help on command line usage**

Example:

```
anytoiso /help
```

10. Translate AnyToISO

CRYSTALIDEA team is looking forward to people who wish to translate AnyToISO to their native language. Visit this web page for more information:

<http://www.crystalidea.com/how-to-translate-anytoiso>

11. Technical Support

CRYSTALIDEA Support Team provides users with support both Lite and Pro version users. Support Staff will answer your questions within 48 hours at most (usually, earlier, within an hour). Each question is carefully studied by the staff of the technical support department and they often discuss it with developers in order to give the most complete answer. We appreciate each customer and will answer each question.

Please visit our website for technical support:

<http://www.crystalidea.com/support>