User Guide and Reference Manual

EncryptDisc Media

FIPS 140-2 Certified AES256-bit Encrypted Optical Disc Media,
hardware agnostic, portable, standalone
for compliant backup, archival,
and confidentiality/integrity of low-cost data transfers

EncryptDisc Creator Software

Encrypted Optical Disc Creation Software,
Create EncryptDisc Media with your own discs
Blu-ray (BDXL 100GB, BD-R 25-50GB, BD-RE 25GB),
DVD+-R/RW/DL (8.5GB), CD-R/RW 700MB,
M-DISC compatible for long-term archival

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About EncryptDisc Media and EncryptDisc Creator Software

Introduction

EncryptDisc Media is a recordable optical disc (Blu-ray, DVD, or CD) offering 700MB to 100GB of storage per disc, combining encryption capability and disc-burning functionality. It provides built-in software for disc-burning and government-strength FIPS 140-2 validated 256-bit AES encryption.

The EncryptDisc Media works with any disc writer hardware (such as Verbatim), making it hardware agnostic and on all Windows systems from **Windows 11 going back to Windows XP**. The resulting discs are portable, standalone, and ideal for compliant backup, archival with immutable storage, and data confidentiality/integrity for transfers. As such, EncryptDisc addresses users' needs who require a simple and highly secure method to **transport, share, and archive sensitive data and records**. There's no software installation required and no need for third-party software applications. Everything you need is on the disc.

EncryptDisc is the proven choice for low-cost, high-capacity encrypted optical media that adheres to HIPAA, SOX, HITECH, CMMC, NIS2, GDPR, and other industry standards.

The EncryptDIsc technology has stood the test of time and broad adoption by security-aware industries, being introduced in 1999 by EncryptX, acquired by media giant Imation (a 3M spinoff known for their disc media), and then under the stewardship of encryption specialist DataLocker Inc. since 2014.

EncryptDisc Creator Software allows you to create EncryptDisc Media from your own available optical discs such as Blu-ray (BDXL 100GB, BD-R 25-50GB, BD-RE 25GB), DVD-R/RW (8.54GB), DVD+-R/RW/DL, CD+-R/RW 700MB and is M-DISC compatible for long-term archival (1000 years).

EncryptDisc Creator Software is licensed and purchased separately — contact **sales@datalocker.com**. Demo software is free and can be made available immediately for compatibility testing and proof of concept.

EncryptDisc Solution Highlights

- **Ease of Use Ensures User Compliance** Simply insert EncryptDisc and create a password when prompted. Drag and drop files and then click to finalize the disc.
- **Automatic Compliance Encryption** Meet regulatory compliance, HIPAA, CMMC, NIS2, and more with government-certified FIPS 140-2 Level 1, 256-bit AES encryption (Cert. #819), all stored data is encrypted automatically.
- **Backup 100GB, Archive for 1000 years, and Transfer Data at a Low Cost** You can backup data securely (up to 100GB on a single disc) and archive data encrypted (for 1000 years on M-DISC) but also enable transfers of data at a low running cost, with blank discs available below one US dollar, on an encrypted and password-protected EncryptDisc from PC to PC either as finished read-only discs or writable discs to allow adding additional files.

Getting Started

EncryptDisc Media Creator Software Instructions

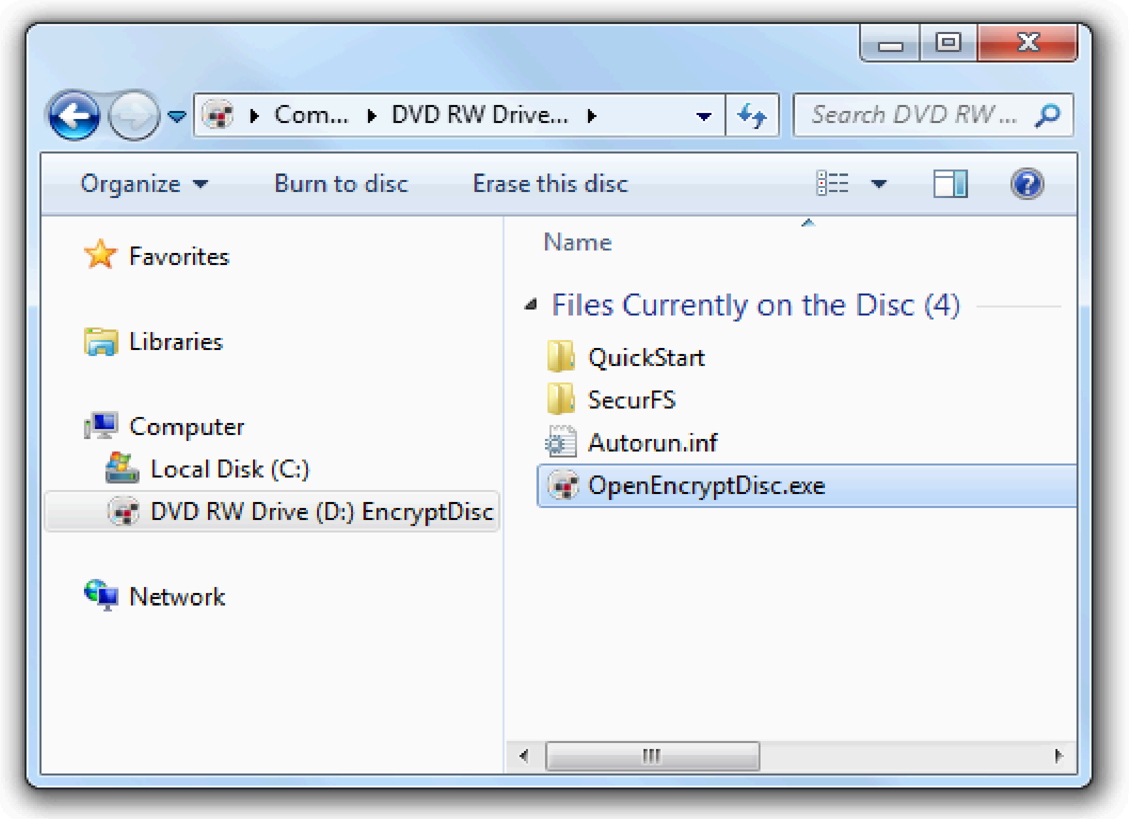
Creating an EncryptDisc media is a quick process on a Windows PC completed by simply running the EncryptDisc Media Creator software and using your own available optical discs such as Blu-ray (BDXL 100GB, BD-R 25-50GB, BD-RE 25GB), DVD-R/RW/DL (8.54GB), DVD+R/RW/DL, CD-R/RW 700MB. EncryptDisc is M-DISC compatible for long-term archival (1000 years). No software installation is required.

Detailed instructions

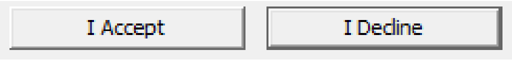
1. Download the EncryptDisc_Create_(DEMO).exe file
2. Insert a blank disc media into the disc drive.
3. The Windows Disc Image Burner application will appear and the burning process will start.
4. After disc burning has completed, the disc will eject from the drive.
5. The creation process has now finished and you can follow the user guide for **Setting up the EncryptDisc Media**.
6. At this point, you may insert another blank disc or close out of the Windows Disc Image Burner application.

Setting up the EncryptDisc Media

1. If EncryptDisc does not automatically run through Windows Explorer or My Computer, navigate to the drive letter that corresponds to your optical drive. Double-click the OpenEncryptDisc.exe file.



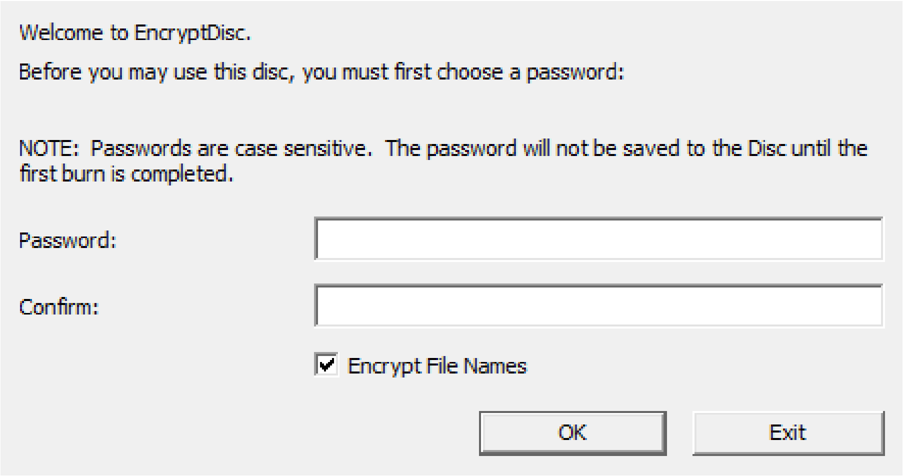
2. Review and accept the license agreement in the EncryptDisc User Setup dialog box.



3. Enter the new password[1] information. Then click OK.

Important: If you forget your password, you cannot access the encrypted files on your EncryptDisc. We recommend 10+ character password phrases or generated passwords and the use of a password manager to handle your passwords.

You must remember your password to access your encrypted files.



Welcome to EncryptDisc.

Before you may use this disc, you must first choose a password:

NOTE: Passwords are case sensitive. The password will not be saved to the Disc until the first burn is completed.

Password:

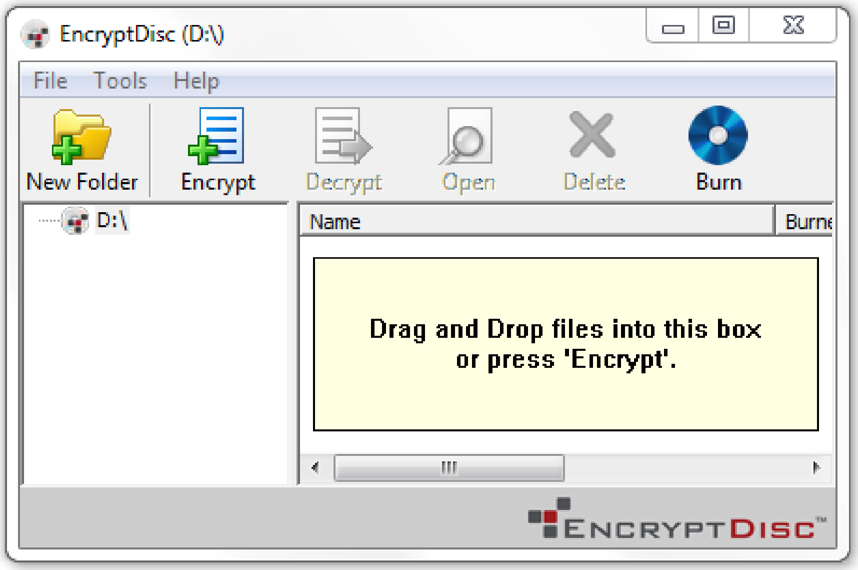
Confirm:

☑ Encrypt File Names

[1] The password is case-sensitive and must be 8 characters or longer.

4. The "Encrypt File Names" option obfuscates the filenames that are burned onto the disc. Actual file contents are always encrypted regardless of whether this option is enabled or disabled.

The EncryptDisc window enables the user to perform all operations, including encryption, burning, file opening, and decryption.

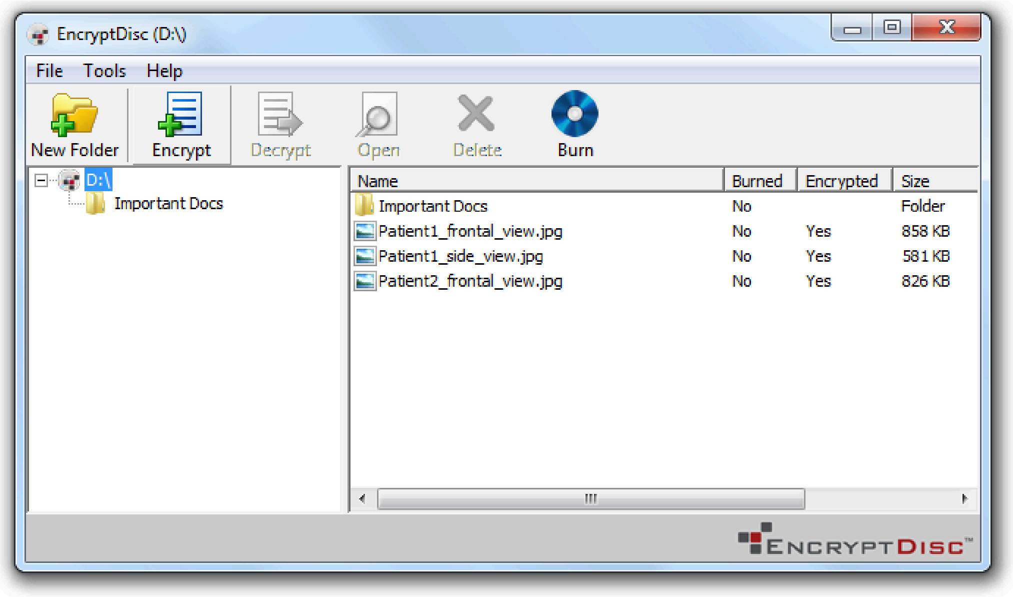


Drag and Drop files into this box or press 'Encrypt'.

How To Encrypt Your Data

The left pane of the EncryptDisc main window displays the root drive letter of your drive and a navigation tree of any subfolders you create. You can create new folders and rename folders as you desire.

Note: While encrypted files always display in the EncryptDisc window, they are only visible through Windows Explorer after burning the files to the EncryptDisc.



Name	Burned	Encrypted	Size
Important Docs	No		Folder
Patient1_frontal_view.jpg	No	Yes	858 KB
Patient1_side_view.jpg	No	Yes	581 KB
Patient2_frontal_view.jpg	No	Yes	826 KB

Two Approaches to Encrypting Your Data

1. Select your desired files and/or folders in your Windows Explorer.

2. Drag and drop the selected items onto a location on the EncryptDisc window.

- or-

    1. In the EncryptDisc window, select the folder location where you want to store the encrypted file or create a new folder and encrypt files to that location.

    2. Click the Encrypt button.

    3. In the Select Files for Encryption dialog box, select one or more files to encrypt and click Open.

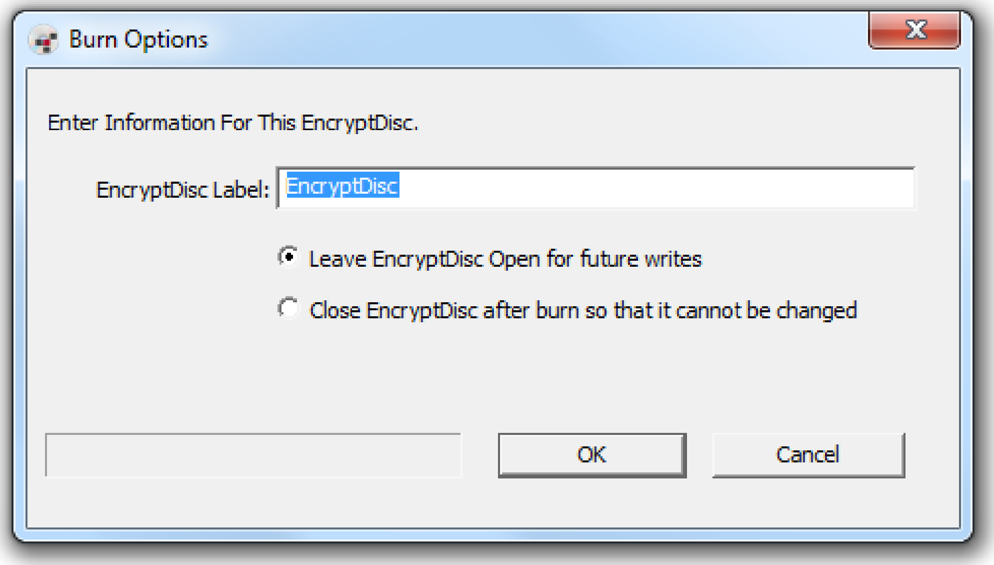
How To Burn Your Data

After you have encrypted one or more files and/or folders, you can burn them to the EncryptDisc. You must enter a label for the EncryptDisc as part of the burning process. Then, you must choose between leaving the disc open or finalizing it. If you finalize the EncryptDisc, you can no longer add or update files.

If you close the EncryptDisc application without burning the encrypted files, the EncryptDisc software discards any unburned files and changes.

1. In the EncryptDisc window, click on the Burn button in the toolbar.

2. In the Burn Options dialog box, enter a word or phrase to help identify the EncryptDisc contents in the EncryptDisc Label box.



Burn Options

Enter Information For This EncryptDisc.

EncryptDisc Label: EncryptDisc

● Leave EncryptDisc Open for future writes

○ Close EncryptDisc after burn so that it cannot be changed

3. Choose a burning option.
4. Click OK.

After you have burned files to the EncryptDisc, the disc will automatically eject from the burner. Also, the "Burned" column in the right pane indicates that the files have been burned the next time the EncryptDisc window opens.

Finalizing/closing the EncryptDisc

You can finalize the EncryptDisc at any time even if you do not have new files to burn. Then, you can read the EncryptDisc contents on PCs without a CD/DVD burner.

1. In the EncryptDisc window, click Finalize EncryptDisc on the Tools menu. The Burn Options dialog box displays with Finalize EncryptDisc after burn so that it cannot be changed selected.
2. In the Burn Options dialog box, click OK.

After burning your files to the EncryptDisc, it will eject from the burner.

Opening and Updating Files

If the user opens an encrypted file, modifies the file, and saves and burns it again, the EncryptDisc software will add the modified version to the file system, superseding the previous version.

To open a file, double-click the file shown in the EncryptDisc window.

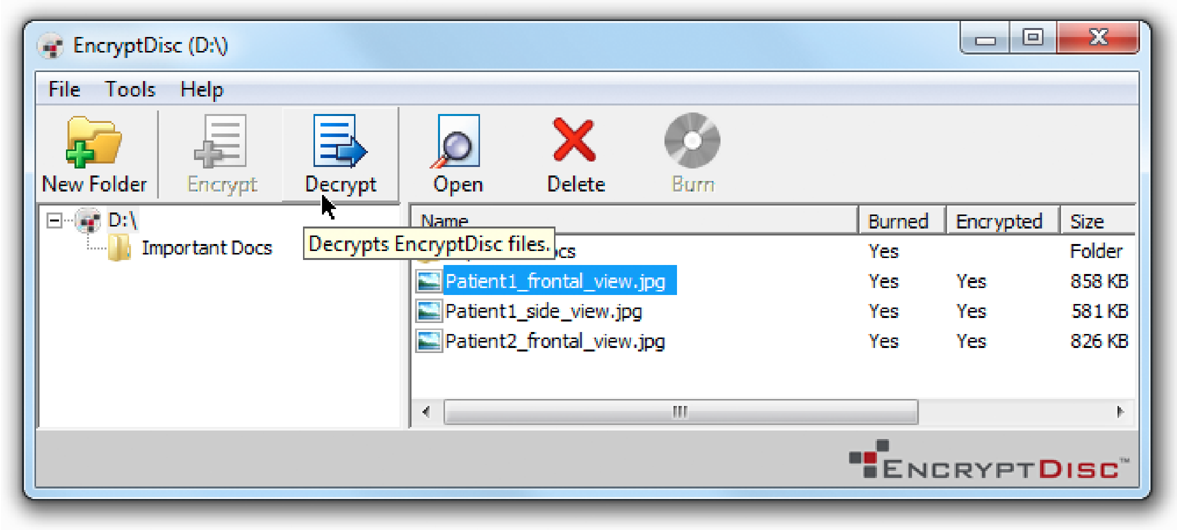
- or -

Select the file and click the Open toolbar button.

As long as there is an application associated with the file type installed on the PC, the file will immediately open in the application.

How to Decrypt Your Data

You can decrypt your files and folders to a hard drive, networked drive, and even removable storage media.



Decrypts EncryptDisc files.

Name	Burned	Encrypted	Size
cs	Yes		Folder
Patient1_frontal_view.jpg	Yes	Yes	858 KB
Patient1_side_view.jpg	Yes	Yes	581 KB
Patient2_frontal_view.jpg	Yes	Yes	826 KB

Decrypt by Dragging-and-Dropping

1. Highlight the folder(s) or file(s) you wish to decrypt.
2. Drag and drop the selected items onto a folder displayed in Windows Explorer – or directly to the desktop.

Decrypt Through the EncryptDisc Decrypt Button

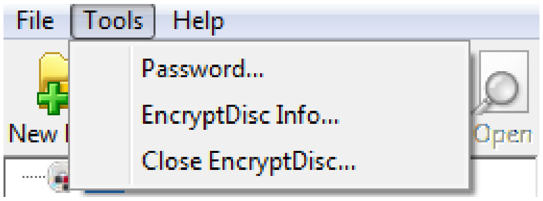
1. In the left pane of the EncryptDisc window, select the folder that contains the file (s) to decrypt and select the file (s) in the right pane.
2. Click the Decrypt toolbar button.
3. To decrypt a folder or multiple files, in the Browse for Folder dialog box, select the location for the decrypted content and click OK – OR - to decrypt a single file, in the file saving dialog box, select the location for the data and click Save.

Password Management

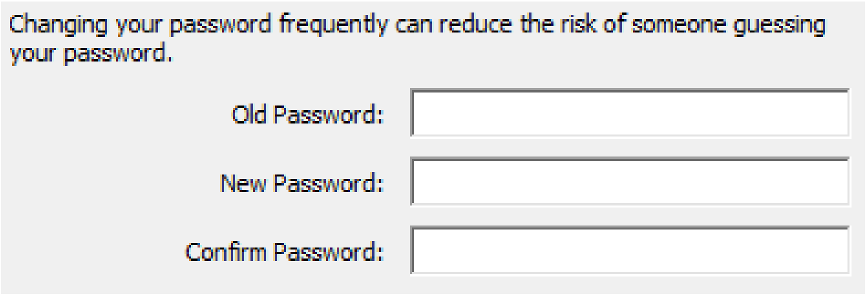
You can modify your password anytime after logging in to the application. If you make any modifications, you must burn the EncryptDisc to apply the changes.

Modify Password

1. In the EncryptDisc window, click Password on the Tools menu.



2. In the Change Password dialog box, enter the existing password in the Old Password box.

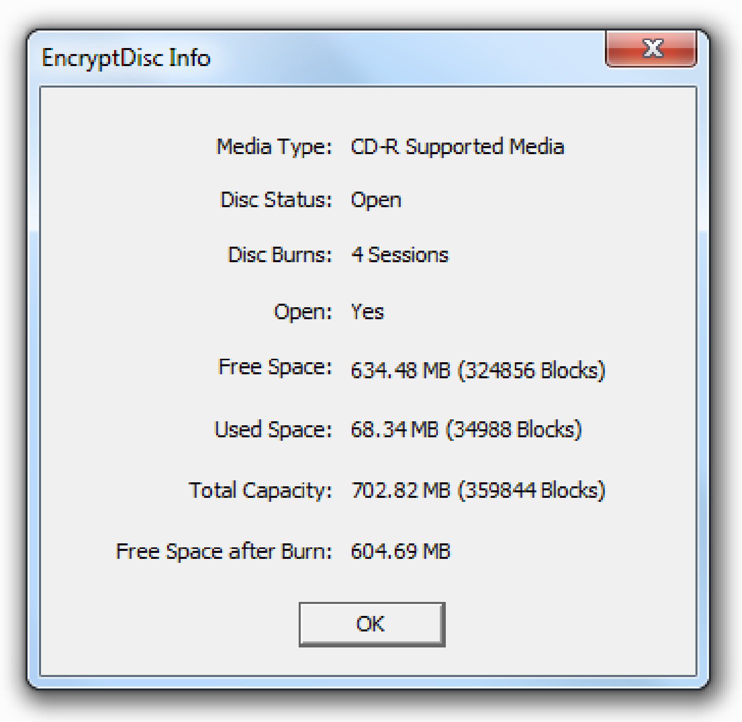

Changing your password frequently can reduce the risk of someone guessing your password.

3. Enter a new password in the New Password box, confirm it, and click OK.

Available Space

You can find out information about your EncryptDisc, including disc type, amount of information burned, and remaining free space on the disc.

In the EncryptDisc window, click EncryptDisc Info on the Tools menu. The EncryptDisc Info dialog box will open.



EncryptDisc Info

Media Type: CD-R Supported Media

Disc Status: Open

Disc Burns: 4 Sessions

Open: Yes

Free Space: 634.48 MB (324856 Blocks)

Used Space: 68.34 MB (34988 Blocks)

Total Capacity: 702.82 MB (359844 Blocks)

Free Space after Burn: 604.69 MB

Additional Product Information

EncryptDisc allows you to protect sensitive information without the need to install any additional software on your PC. Everything you need is already on the EncryptDisc and runs directly from the disc.

Administrative Rights

You must have local administrative privileges to burn an EncryptDisc or an administrator must have given you this privilege. If you do not have local PC Administrator rights, you can open, read, and decrypt the EncryptDisc but you cannot add data to it.

Compatibility with Third-party Burning Software

EncryptDisc does not require that you use third-party burning software or built-in burning features of the Microsoft Windows operating system, the EncryptDisc Creator Software relies on the native Windows disc authoring tool.

Do not use Microsoft Windows Live File System (a feature of Windows Vista and Windows 7) or third-party burning software with your EncryptDisc or your disc may become inoperable when interchanged with other PCs using a different operating system.

Compatibility with all available Windows Operating Systems

EncryptDisc is supported on Microsoft Windows 2000, XP Home, XP Pro, Vista (all versions), Windows 7, and Windows 8. Windows 10 and Windows 11. EncryptDisc is not supported on Windows 95, Windows 98, Windows ME, Linux, or any of the macOS operating systems. You can encrypt any type of file supported by the Microsoft Windows operating system on an EncryptDisc.

Compatibility with all writable/recordable Optical Media

While EncryptDisc is supported on all writable or recordable CD, DVD, and Blu-ray media (CD-R, CD+R, CD+RW, DVD-R, DVD+R, DVD+RW, DVD RAM, BDXL, BD-RE), you must have a burner that is compatible with the type of media that you are using. The front panel of your burner may have information about media compatibility. If your burner is incompatible, EncryptDisc will open as read-only media.

Available Host Space Needed for Encryption and Burning

The TEMP directory on your PC must have space equal to or greater than the size of the files you are trying to encrypt and burn. Otherwise, you will not be able to encrypt all data.

EncryptDisc Space Requirements on Disc

The EncryptDisc application will occupy a certain amount of storage space on your chosen media discs. To give you an idea, a rough estimate of the space required is 35MB plus an additional 2-3% of the advertised capacity of the optical media. Keep in mind that any formatting of any storage media will bring it below the advertised space.

Document Version

The latest version of this document resides at
https://media.datalocker.com/manuals/EncryptDisc_User_Guide.pdf

This document was compiled on Feb 29, 2024

Notices

DataLocker is continuously updating its products, the images and text in this manual may vary slightly from the images and text displayed by your device. These changes are minor and should not adversely affect the ease of setup.

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Patents

Patent: **DataLocker.com/patents**