

User's Manual

Transcend® JetDrive Toolbox Software



(Version 1.6)

Transcend's JetDrive solid state drives and storage expansion cards both come with Transcend's JetDrive Toolbox – a useful and free-to-download software that offers a new level of storage experience.

JetDrive Toolbox helps maintain a healthy SSD by keeping it up-to-date, preventing functional degradation, and predicting problems before they happen. The useful features include: Drive Information, S.M.A.R.T. Status, TRIM Enabling, and Health Indication.

Exclusively for your JetDrive Lite expansion cards, JetDrive Toolbox offers a Recovery function allowing you to bring back accidentally deleted images, videos, MP3,

and PDF files. The Power Save function helps you save power by automatically eject your JetDrive Lite before the Mac enters sleep mode and remount it when the Mac wakes up.



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Hardware Requirements

- Transcend JetDrive Solid State Drive (JDM420 / JDM500 / JDM520 / JDM720)
- Transcend JetDrive Lite expansion cards (JDL130 / JDL330 / JDL350 / JDL360)
- MacBook / MacBook Pro / MacBook Air / Mac mini / Mac Pro
- Enough free hard disk space to store all recovered files (EX: if 9GB of files are to be recovered, you will also need 9GB of free space on your computer's hard drive)

Supported Operating Systems

- Mac OS X 10.7 or later

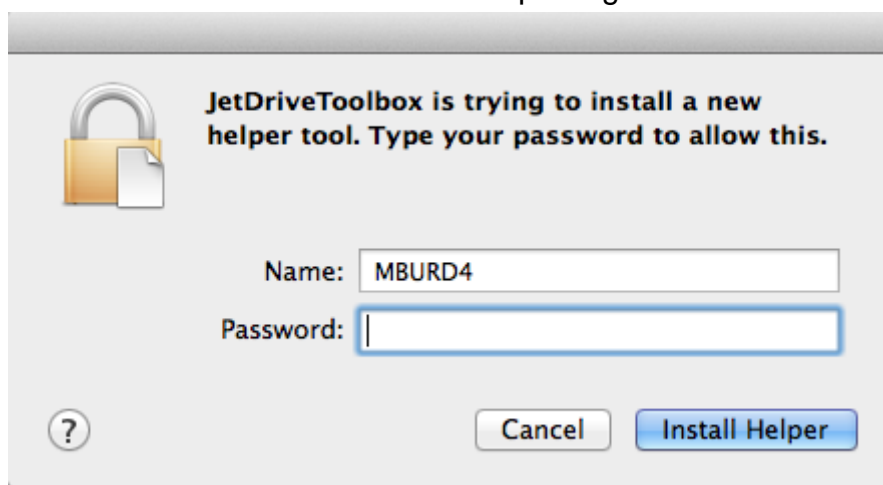
NOTE: You must have Administrator privileges to run the JetDrive Toolbox in Mac OS

Getting Started

You do not have to install any software on your computer to run JetDrive Toolbox. Download JetDrive Toolbox from the Transcend Download Center (<http://transcend-info.com/Support/service>) and extract the entire contents of the zip file to your computer. You can start JetDrive Toolbox manually by double-clicking on the “JetDrive Toolbox.dmg” icon.



After launching the JetDrive Toolbox software, you will be asked to input your Name and Password in order to obtain root privileges.



NOTE: Do not manually delete or alter the contents of the “JetDrive Toolbox” system folder

JetDrive

The functions in JetDrive sheet are supported for Transcend JetDrive Solid State Drives.

View Drive Information

Displays standard drive information of any supported Transcend SSD.

1. Select "DRIVE" from the Main Menu.



2. Choose a Transcend SSD to view the drive information.



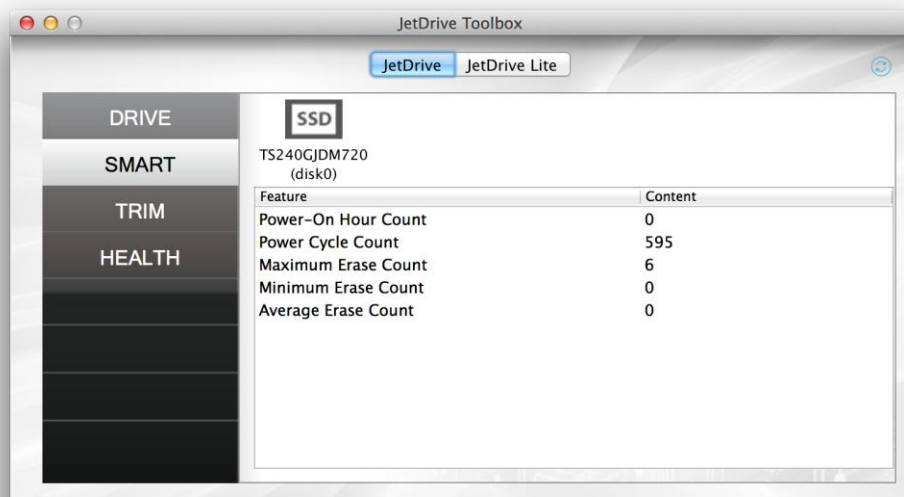
View S.M.A.R.T. Status

S.M.A.R.T. is an industry standard storage device monitoring technique used to detect possible hard drive failures before they occur.

1. Select "S.M.A.R.T." from the Main Menu.



2. Choose a Transcend SSD to view the S.M.A.R.T. status.



(How many S.M.A.R.T. status fields are displayed depends on your model.)

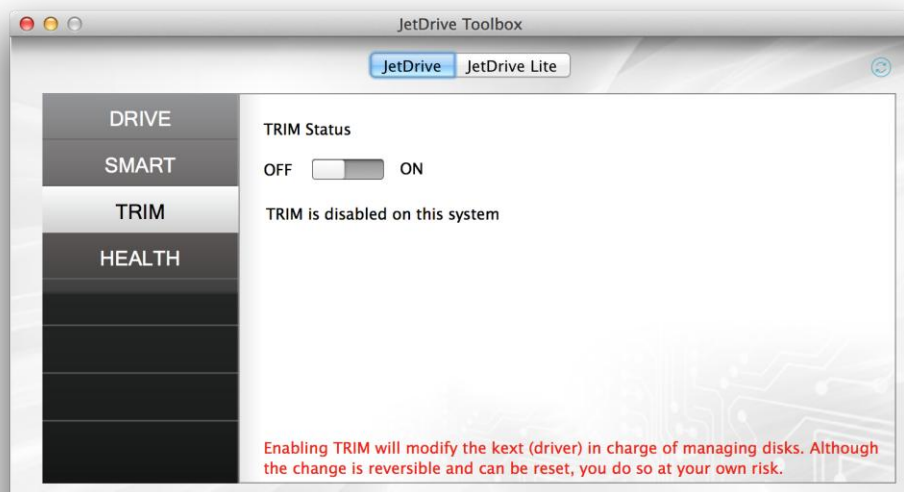
TRIM Detect & Enable

TRIM prevents future SSD performance degradation by completely removing unwanted data automatically.

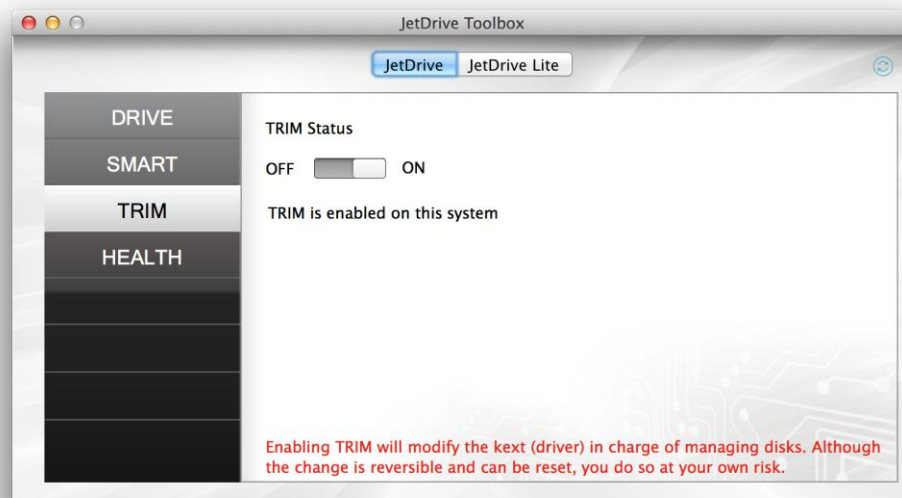
1. Select "TRIM" from the Main Menu.



2. The current TRIM status will be shown. Slide the switch to the "ON" position if you want to enable TRIM in your operating system.



3. Conversely, slide the switch to the “OFF” position if you want to disable TRIM in your operating system.



NOTE: Enabling TRIM will modify the kext (driver) in charge of managing disks. Although the change is reversible and can be reset, you do so at your own risk.

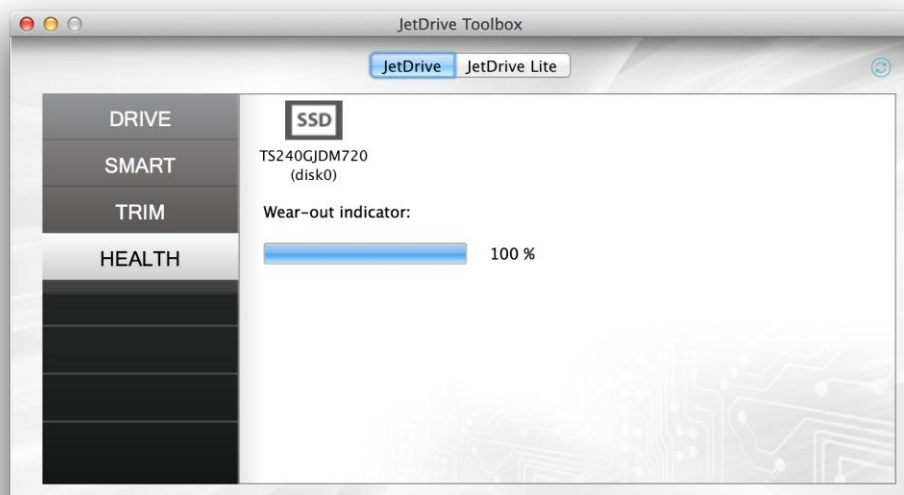
Health Indicator

The Health Indicator is used to monitor the media wear-out level of a Transcend SSD. The value is displayed in percentage format. The value of a new SSD will show 100%, and decrease over time as the SSD is used.

1. Select "HEALTH" from the Main Menu.



2. Choose a Transcend SSD to view the wear-out indicator.



JetDrive Lite

The functions in JetDrive Lite sheet are supported for Transcend JetDrive Lite expansion cards.

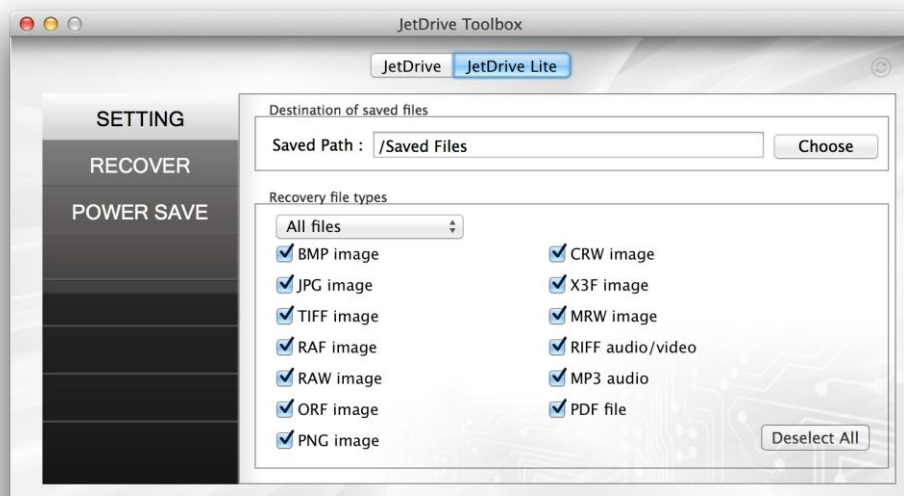
Setting

Displays the setting information of the Recover function.

1. Select "SETTING" from the Main Menu



2. The setting information include:



2. a) Destination of saved files: The location you want to save the recovered files (default location is /Saved Files/)

b) Recovery file types: the type of files you want JetDrive Toolbox to recover (you must choose at least one file type; see the chart below for the descriptions of the supported file types)

| Type | Description |
|------------------|---------------------------------------|
| BMP image | UnCompressed bitmap image files |
| JPEG image | JPEG/JPG compressed image files |
| TIFF image | Tagged Image File Format image files |
| RAF image | Fujifilm RAW image files |
| RAW image | Panasonic/Leica RAW image files |
| ORF image | Olympus RAW image files |
| CRW image | Canon RAW image files |
| PNG image | Portable Network Graphics image files |
| X3F image | Sigma/Foveon X3RAW image files |
| MRW image | Minolta RAW image files |
| RIFF audio/video | WAV audio files and AVI video files |
| MP3 audio | MP3 compressed audio files |
| PDF file | Portable Document Format files |

NOTE: DO NOT select the drive from which you are recovering files as the destination folder. Doing so can render your lost files permanently unrecoverable.

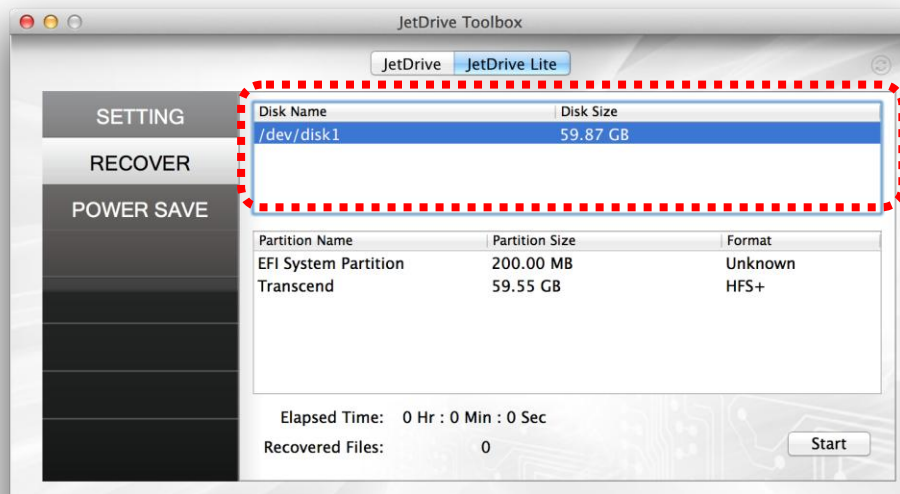
Recover

Recover the accidentally deleted image files from your Transcend's JetDrive Lite storage expansion cards.

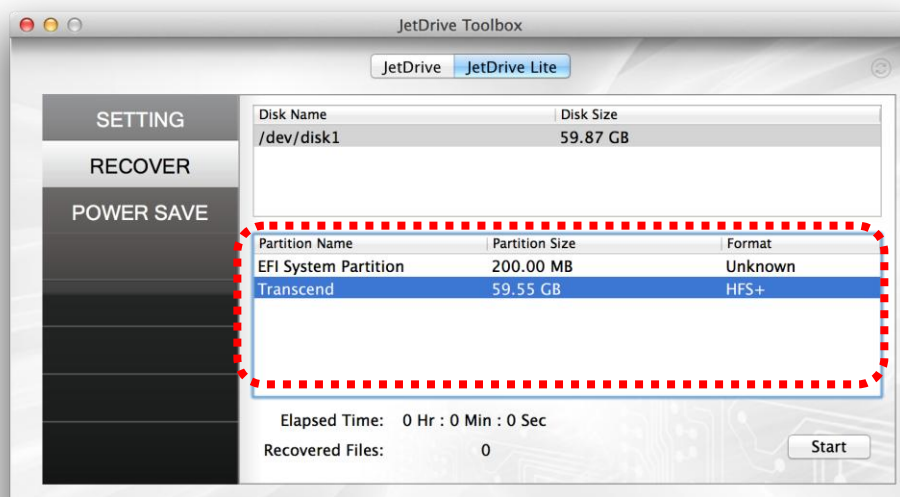
1. Select "Recover" from the Main Menu.



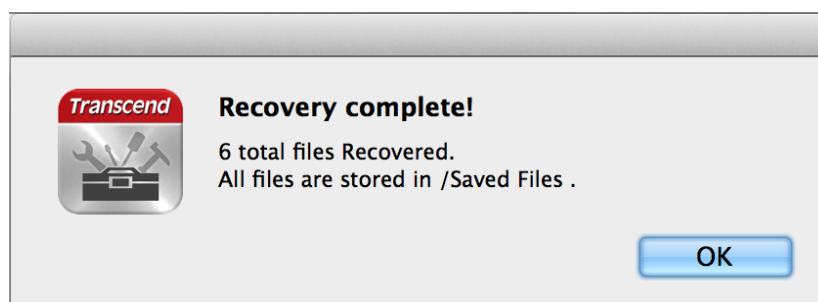
2. Select your JetDrive from the list in the upper window under "Disk Name".



3. Select the partition that contained the files you are trying to recover in the lower window.



4. Click “Start” to begin recovering lost files. The number of recovered files and the total elapsed time will appear on the screen.
5. When the recovery process is completed, a message box will show the total number of files recovered. Click “OK” to continue searching a different partition or exit the program.



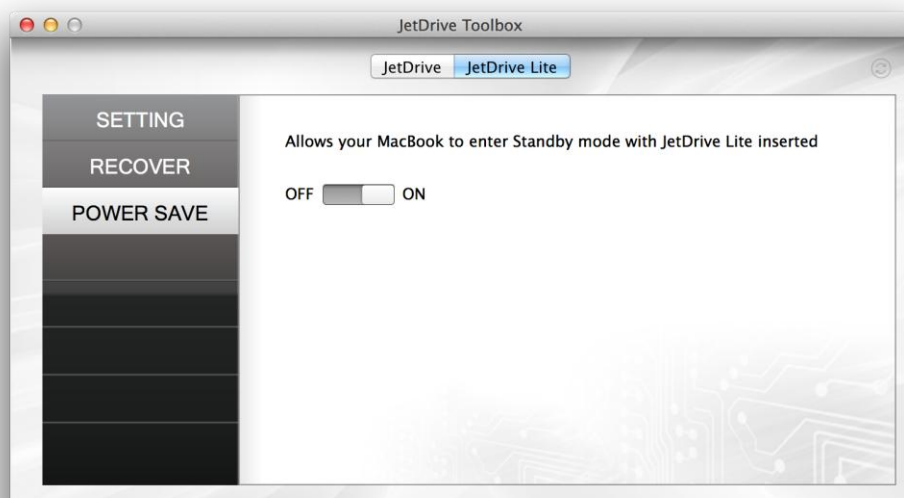
Power Save

Helps you save power by automatically eject your JetDrive Lite before the Mac enters Standby mode and remount it when the Mac wakes up.

1. Select “POWER SAVE” from the Main Menu.



2. Slide the switch to the “ON” position if you want to automatically eject JetDrive Lite when entering Standby mode and remount it when Mac wakes up. Conversely, slide the switch to the “OFF” position if you do not want to do it.



Troubleshooting

Q: JetDrive Toolbox cannot detect my JetDrive SSD.

A: Your JetDrive SSD might not be correctly connected to your Mac. Try reconnecting the SSD to make sure it is securely connected to the appropriate port.

Q: JetDrive Toolbox doesn't run when I double-click the icon. What's wrong?

A: The JetDrive Toolbox software only works on Mac OS X 10.7 or later.

Q: How do I manually restore the TRIM status if JetDrive Toolbox shows "No Backup File, can't restore. Please restore manually."?

A: You can restore TRIM status manually with the following steps:

- (1) Open terminal
- (2) Type "diskutil mount 'Recovery HD'"
- (3) Open Recovery HD in Finder, find "BaseSystem.dmg" in "/Volumes/Recovery HD/com.apple.recovery.boot"
- (4) Open/mount "BaseSystem.dmg". As this is a hidden file, you need to set the Finder to show it.
- (5) Open "OS X Base System" and find "IOAHCIFamily.kext" in "System/Library/Extensions"
- (6) Copy "IOAHCIFamily.kext" to "/System/Library/Extensions/". You need root privileges to do this.
- (7) Change the file privilege; type the following command in terminal
sudo chown -R root:wheel
/System/Library/Extensions/IOAHCIFamily.kext
sudo chmod -R 755 /System/Library/Extensions/IOAHCIFamily.kext
- (8) Finalize the patch; type the following command in terminal
touch /System/Library/Extensions/
- (9) Reboot the system

Q: JetDrive Toolbox cannot detect my JetDrive Lite expansion card.

A: Your JDL card might not be connected correctly to your computer. Try reconnecting the card to make sure it is securely connected to the appropriate slot.

Q: A partition on my drive is detected as "Unknown". Can I still recover data from it?

A: Partitions that use file system other than FAT16, FAT32, exFAT, NTFS or HFS will be listed as "Unknown" in the JetDrive Toolbox. However, it is

still possible to recover data from these partitions.

Q: JetDrive Toolbox has been running for a long time and still hasn't finished recovering. How long does the recovery process usually take?

A: The duration of the recovery process varies depending on the disk size and the state of the data saved within the storage device. Try waiting patiently a little longer for the process to complete. If the JetDrive Toolbox still does not complete the recovery process, please contact Transcend technical support for further assistance.

More Help

If you cannot find the answer to your problem in this manual and are having difficulties with the JetDrive Toolbox software or your Transcend solid state drive, please visit our Tech Support website at http://transcend-info.com/Support/contact_form.

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