Lexar Disk MasterUser Guide

1. Purpose

To guide users in utilizing the various functional modules of the client software.

2. Scope

Lexar DiskMaster

3. Software Functions

3.1 Disk information

3.1.1 Click on "Disk information" to select a disk and display its product name, serial number, firmware version, capacity, health status, temperature, and other related information.

	ster	● ¢ - ×
Disk information		
😮 S.M.A.R.T	II Lexar SSD NM610PRO 1TB	• 0
Secure erase	Serial number 86.65 GB	
🛃 Data transfer	MHP559R001703P1100 Firmware 7939	Good _{Health}
E Performance testing	7939 Storage capacity	
企 Scanning error	953.87 GB Unallocated Usable space	30°C
😝 Firmware upgrade	813.87 GB 53.35 GB	
멸 System information		
About us	F:\ NTFS G:\ H:\	
	86.65 GB / 140.00 GB 0.00 GB 0.00 GB 0.00 GB	GB / 0.00 GB
	Current mode/supported mode Interface / USB(NVMe)	
		Version: V1.1.2

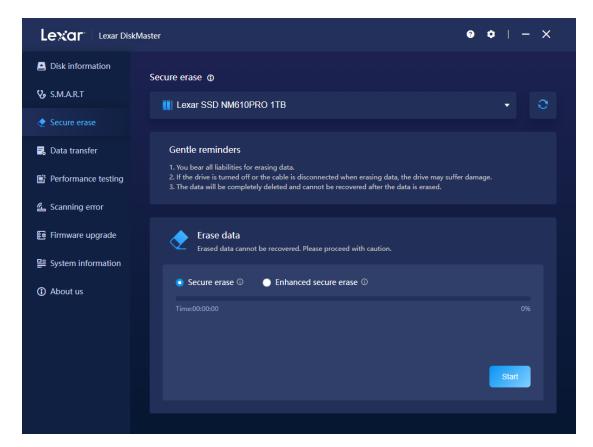
3.2 SMART

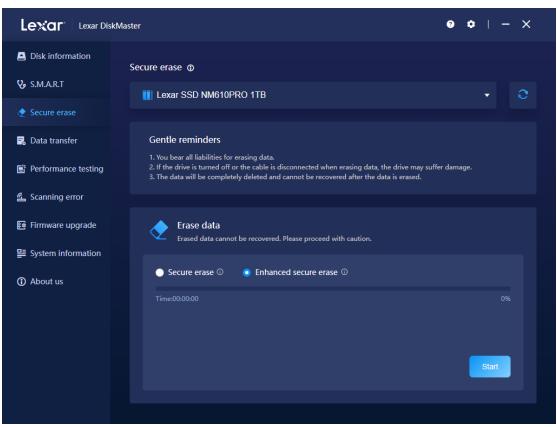
	Master					0 ¢	- ×
Disk information	S.M.A.R.T ①						
😵 S.M.A.R.T		SSD NM610PRO 1TB				•	0
🔶 Secure erase							Ĭ
🛃 Data transfer	ID	Description	Warning threshold	Current value	Lowest value	True value	Status
📑 Performance testing		Critical Warning					ОК
	02	Composite Temperature				300	ОК
企 Scanning error		Available Spare				100	ОК
🛱 Firmware upgrade	04	Available Spare Threshold					ОК
		Percentage Used					ОК
System information	06	Data Units Read				175512	ОК
(f) About us	07	Data Units Written				268916	ОК
	08	Host Read Commands				6540944	ОК
	09	Host Write Commands				6962571	ОК
	0A	Controller Busy Time					ОК
	ОВ	Power Cycles					ОК
	0C	Power On Hours					ОК
	0D	Unsafe Shutdowns					ОК

3.2.1 Click on "S.M.A.R.T" and select a disk to display its SMART information.

3.3 Secure erase

3.3.1 Click on "Secure erase," select a disk, check any erasure mode, and enter "Erase Confirmation" in the prompt box. After clicking "Confirm," the secure erase process will be initiated. If the specified content is not entered as required, the secure erase cannot be executed.

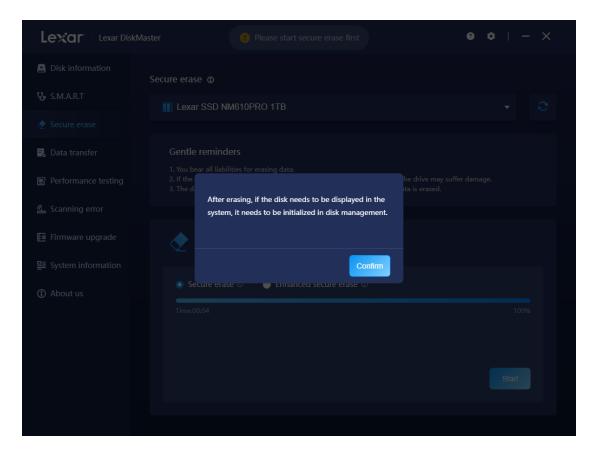




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	Secure erase @	
	1. You be the first of the firs	
	Please proceed with caution.	
	Please enter "Erase confirm"	
	Cancel	
	• Se.	

Lexar DiskN		0 ¢ - ×
	Secure erase ()	
	1. You be the first of the firs	
	Please proceed with caution.	
	123 Incorrect input	
	Cancel Confirm	

Lexar DiskMa		0 ¢ - ×
	Secure erase ()	
	1. You be the Life of the life	
	Please proceed with caution.	
	Erase confirm	
	Cancel	
	• Sc.	



3.3.1.1 Secure Erase will erase all data on the disk. Please ensure that you have backed up your data before using this feature.

3.3.1.2 "Secure Erase" and "Enhanced Secure Erase" modes cannot be executed simultaneously.

3.3.1.3 After disk erasure, the disk will be in an uninitialized state. If you wish to continue using the disk, please initialize it and create new partitions manually in the Disk Management section of your computer.

3.3.1.4 Please do not power off the disk or close the client during the erasure process, as it will result in erasure failure.

3.3.1.5 To prevent accidental erasure of the current system drive and potential loss of the operating system, secure erase does not support erasing the current system drive.

3.4 Data transfer

3.4.1 Select the source disk and target source disk, then click "Start." After clicking "Confirm" in the prompt box, the data migration process will begin.

Lexar 🛛 Lexar DiskMa	ster		0 ≎ -	- ×
Disk information	Data transfer ①			
😵 S.M.A.R.T				
♦ Secure erase	Lexar SSD NM610PRO 1TB			-
🛃 Data transfer	Source disk Lexar SSD NM610PRO 1TB	Drive letter F: G: H:\	Storage capacity 953.87 GB	
Performance testing				
د Scanning error				
🖼 Firmware upgrade	511BS0512HB			-
System information	Target disk 511BS0512HB	Storage capacity 476.94 GB		
(i) About us				
			sta	art

Lexar Disk	Master	0 ¢ - ×
	Data transfer 💿	
		Storage capacity 953.87 GB
	The data cannot be recovered after the data transfer. Please proceed with caution.	
	511BS(
	Target dis 511BS05	

3.4.1.1 If you are using an NVME SSD (connected directly through the M.2 interface or PCIe slot) for data migration, it is necessary to restart the computer after the migration is complete. This ensures that the target source disk can be accessed properly, and at this point, the source disk status will be "Offline." Right-click on it and select "Online" to access the source disk normally.

3.4.1.2 If the source disk is the system disk, after completing the data migration, please power on the target source disk separately to prevent manual online operations from causing the target source disk to be unable to enter the system.

3.4.1.3 The capacity of the target source disk must be equal to or greater than the capacity of the source disk in order to proceed with the data migration; otherwise, an error will occur.

3.4.1.4 The current system disk cannot be selected as the target source disk; otherwise, an error will occur.

Lexar Lexar Disk	Master The source disk canr cannot be made on t	not be the same as the target disk. the same disk.	Transfer 😗 🌻	- ×
Disk information	Data transfer ①			
😵 S.M.A.R.T				
♦ Secure erase	511BS0512HB			-
🛃 Data transfer	Source disk 511BS0512HB	Drive letter C: D: E:\	Storage capacity 476.94 GB	
E Performance testing				
企 Scanning error				
🛃 Firmware upgrade	511BS0512HB			•
말 System information	Target disk 511BS0512HB	Storage capacity 476.94 GB		
(i) About us				
				Start

3.4.1.5 Please do not power off the source disk or target source disk during the data migration process, as it will result in data migration failure.

3.4.1.6 During the data migration process, you cannot perform operations on the target source disk, use other functions within the client, or close the client. If you need to perform other operations, you can cancel the data migration.

3.4.1.7 Please do not write data to the source disk during the data migration process, as it may cause the migration to fail.

3.4.1.8 Data migration currently does not support resuming from a previous interruption. If the migration is interrupted, the next migration will start from the beginning.

3.4.1.9 Data migration is a full disk migration and is dependent on the actual capacity of the source disk. It is not related to the amount of data stored on the source disk. Therefore, data migration for large capacity disks may take a longer time. Please be patient and wait for the process to complete.

3.5 Performance Testing

3.5.1 Click on "Setup baseline test" to select the disk and configure the parameters. After completing the settings, close the current interface and click "Start" to test sequential performance and random performance.

	Master			● ¢ - ×
Disk information	Performance testing ①			
😵 S.M.A.R.T				
◆ Secure erase				0%
🛃 Data transfer				Start
Freformance testing				
د Scanning error	Results C:\ 1GiB 5 times			
📴 Firmware upgrade	Sequential read	Sequential write	Random read	Random write
System information				0 MB/s
About us	Sequential read Sequential w	rrita 🧧 Random read 🔳 Random w	rrite	

 Secure et interval Data tran Performa Sequential read Queue depth Number of threads System it Sequential write Queue depth Number of threads 1 System it Random read Queue depth Number of threads Source of threads Sequential write Random read Queue depth Number of threads Sequential write Random read Queue depth Number of threads Sequential write Random read Queue depth Number of threads Sequential write Sequential write Number of threads Sequential write Number of threads Sequential write Sequential write<	exar								¢	
Secure e Cλ IGiB 5 Interval 5 Interval Data tran 5 Performa Sequential read Queue depth Scanning Sequential write Queue depth Firmware Sequential write Queue depth System in Sequential write Queue depth About us Random read Queue depth Random write Queue depth Number of threads 32 16	Disk info								×	
Secure e Interval Data trar 5 Performa Sequential read Sequential read Queue depth Number of threads Sequential write Queue depth Number of threads System ir About us Random read Queue depth Number of threads 32 16	S.M.A.R.T	Regular options	Test paper		Test scope		Number of tests			
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Sequential read Queue depth Number of threads Sequential write Queue depth Number of threads System in Random read Queue depth Number of threads 32 Random write Queue depth Number of threads Random write Queue depth Number of threads	Data trar			⊗						Start
Scanning Sequential write Queue depth Number of threads System in 8 1 • About us Random read Queue depth Number of threads 32 16 • Random write Queue depth Number of threads	Performa	Sequential read	Queue depth		Number of threads					
Sequencial write Queue depth Number of threads System in 8 1 • About us Random read Queue depth Number of threads 32 16 • Random write Queue depth Number of threads	Scanning		8	•		•				
System in Random read Queue depth Number of threads 32 16 If Random write Queue depth Number of threads	Firmware	Sequential write	Queue depth		Number of threads					
32 16 Random write Queue depth Number of threads	System ir		8	-		•				
Random write Queue depth Number of threads	About us	Random read	Queue depth		Number of threads					
			32	•	16	•				
32 🖌 16 🖌		Random write	Queue depth		Number of threads					
			32	•	16	•				

- ×
100%
Start
Start te Expo

3.5.1.1 Disks without partitions cannot be selected for testing. Please create partitions before proceeding.

3.5.1.2 Adjusting the parameters and testing a disk that is the system disk or has other loads can impact the actual measured performance. Using the client's default configuration will provide results closer to the disk's claimed performance (high-performance NVMe SSDs may require a high-performance motherboard to achieve the claimed performance).

3.5.1.3 Please do not power off the disk during the performance testing, as it will interrupt the testing process.

3.5.1.4 During the performance testing, you cannot use other functions within the client or close the client. If you need to perform other operations, you can cancel the performance testing.

Lexar Dis		0 ¢ - ×
	Results C\ 1Gi Confirm cancellation of performance test	
	Sequent O MR/c Cancel Confirm	
	O MB/s	

3.6 Scanning error

3.6.1 Select the disk, check either "Simple Scan" or "Deep Scan," and click " Confirm." After clicking "Start", the fault scan will begin.

Lexar DiskMas		0 ¢ - ×
	Confirm scanning of the D:\ disk.	
	Scan Cancel Confirm	
	scan	

3.6.1.1 If the disk is already full, the fault scan cannot be performed.

3.6.1.2 The simple scan requires temporarily occupying 1GB of disk capacity, while the deep scan requires temporarily occupying the entire remaining capacity of the disk. After the scan is completed, the scan files will be automatically deleted.

3.6.1.3 During the fault scan, you cannot use other functions within the client or close the client. If you need to perform other operations, you can cancel the fault scan.

3.6.1.4 If the disk loses power during the fault scan, the scan process will be interrupted, and the remaining scan files will need to be manually deleted.

Lexar DiskMaster		0 ¢ - ×
	Confirm cancellation of scanning	
	Scan Cancel Confirm	
	Scan Cancel Continu	

	er Scanning cancellation successful	9 ¢ - ×
Disk information S	canning error ()	
🎖 S.M.A.R.T	[] F1	• 0
♦ Secure erase		
🛃 Data transfer	Simple scan	
F Performance testing		
歪 Scanning error		Start
Firmware upgrade	Scan results	
System information		
About us		

3.7 Firmware Upgrade

3.7.1 Select the disk and the firmware update file, then click "Upgrade" to begin the firmware upgrade process.

		◎ ☆ - ×
Disk information	Firmware upgrade	
℃ S.M.A.R.T	Lexar SSD NM610PRO 1TB	• 0
🔶 Secure erase		
🛃 Data transfer		
F Performance testing		
企 Scanning error		Manual Firmware Upload
🔁 Firmware upgrade		
System information		0% Upgrade
① About us		Upgrade

	◎ ☆ - ×
Firmware upgrade	
Confirm to start upgrade	
Time:00:00 Cancel Confirm	

3.7.1.1 After a successful firmware upgrade, the disk needs to be power cycled (e.g., shutting down and restarting the computer) for the new firmware to be activated.

3.7.1.2 To ensure a successful firmware upgrade, you need to place the firmware update file in the "updatefile" directory of the client. Additionally, the disk and the firmware update file need to be compatible for the upgrade to succeed. Otherwise, the upgrade will fail.

3.7.1.3 During the upgrade process, do not power off the disk, as it can result in a failed upgrade and may have a certain probability of causing disk malfunctions.

3.8 System Information

3.8.1 Click on "System Information" to view information about the local system, hardware devices, and other details.

3.9 System settings

3.9.1 Click on the gear icon in the top right corner to switch the client's language between English and Chinese.

