

Lexar DiskMaster User Guide

1. Purpose

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

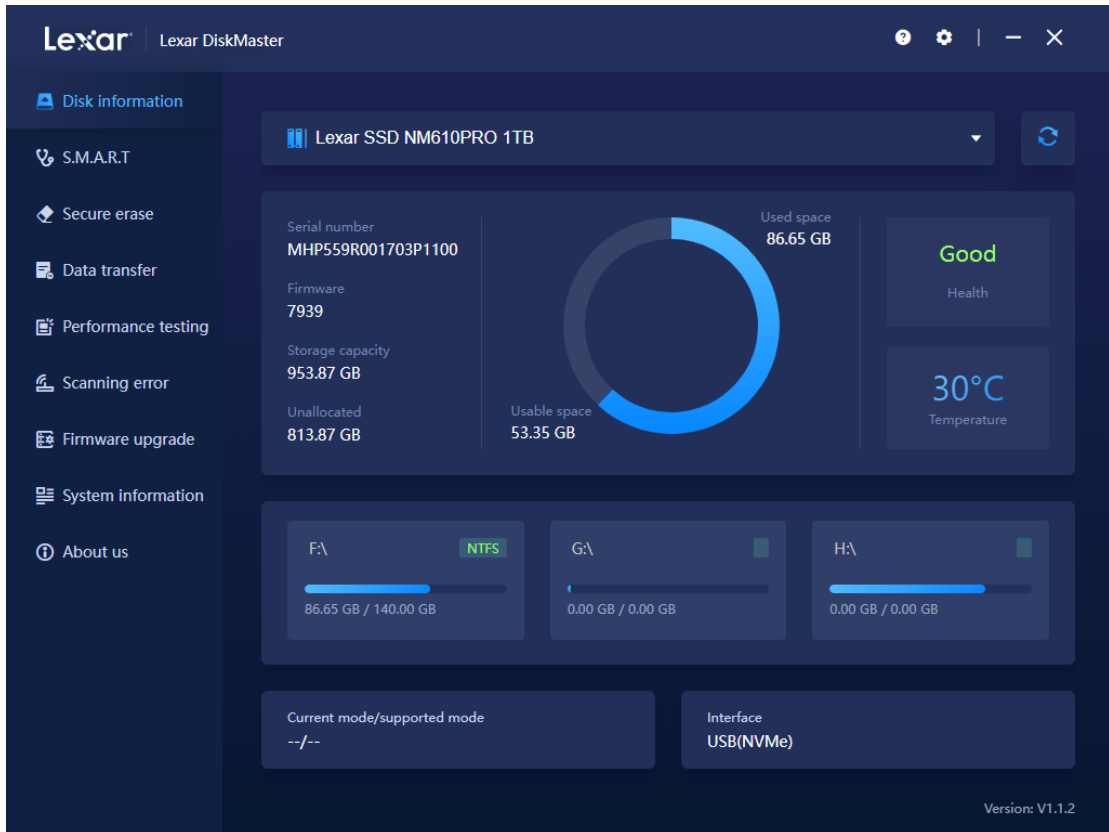
2. Scope

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.



3.2 SMART

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

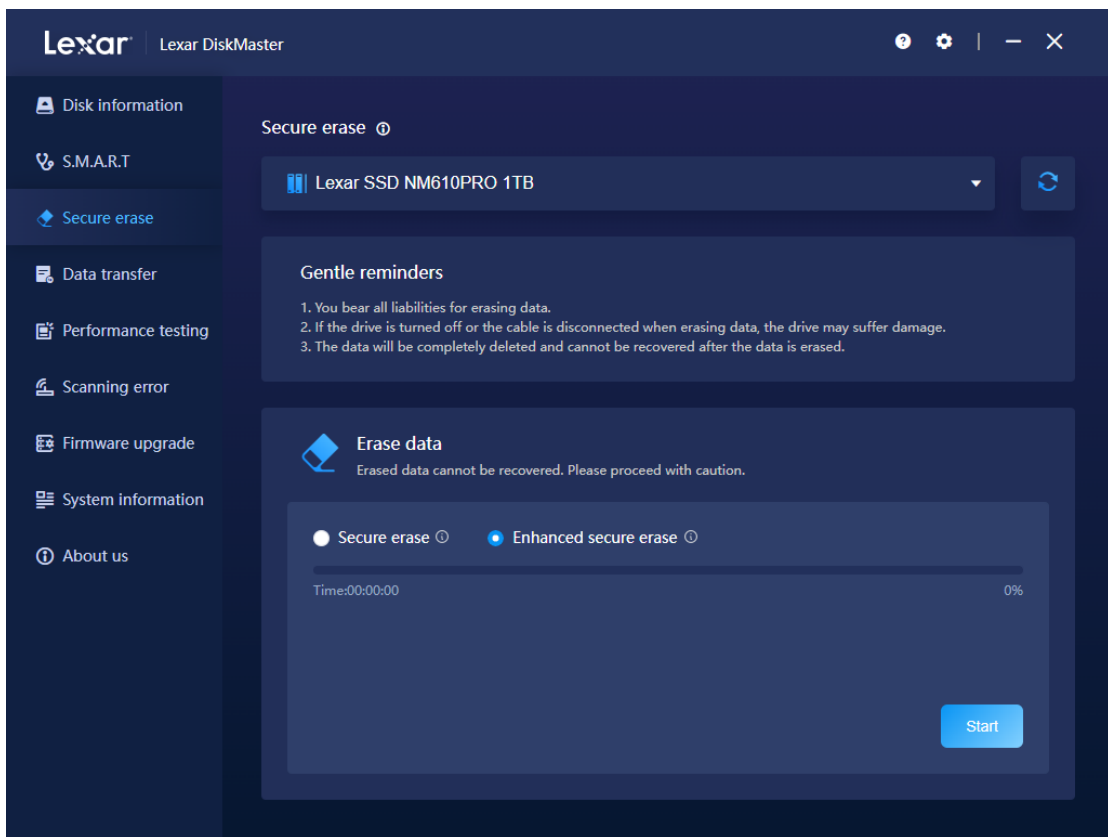
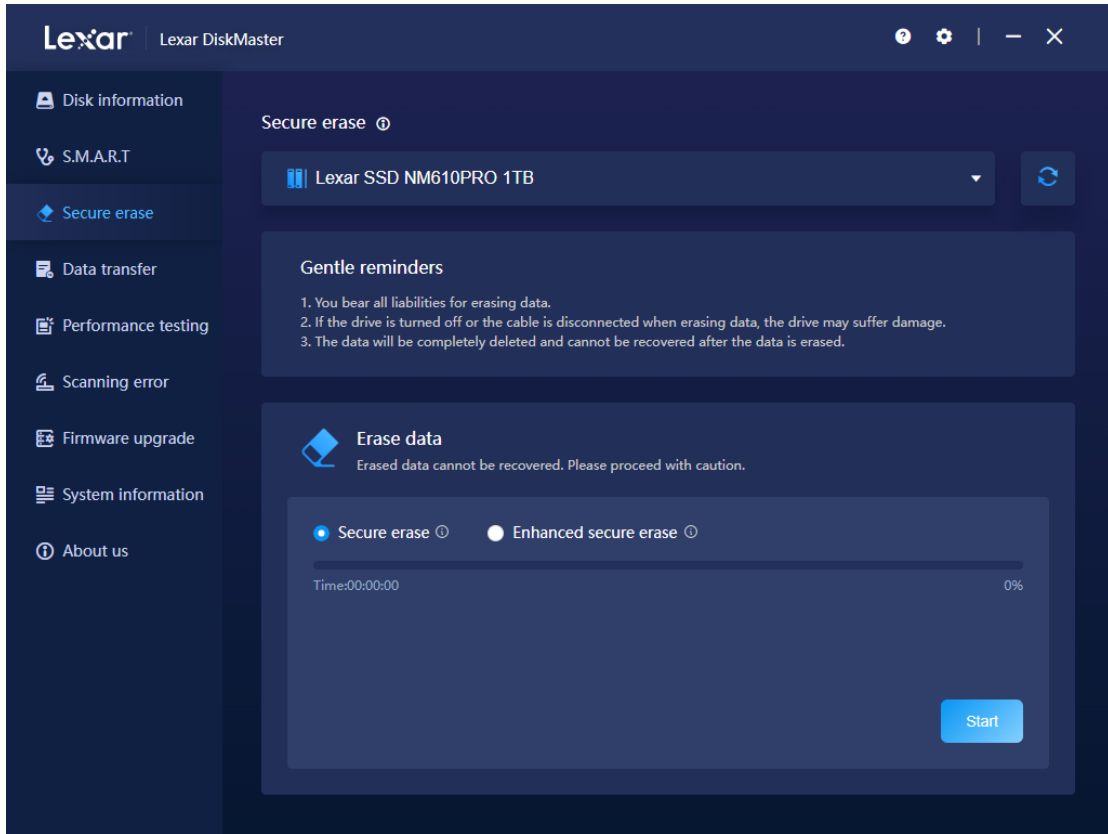


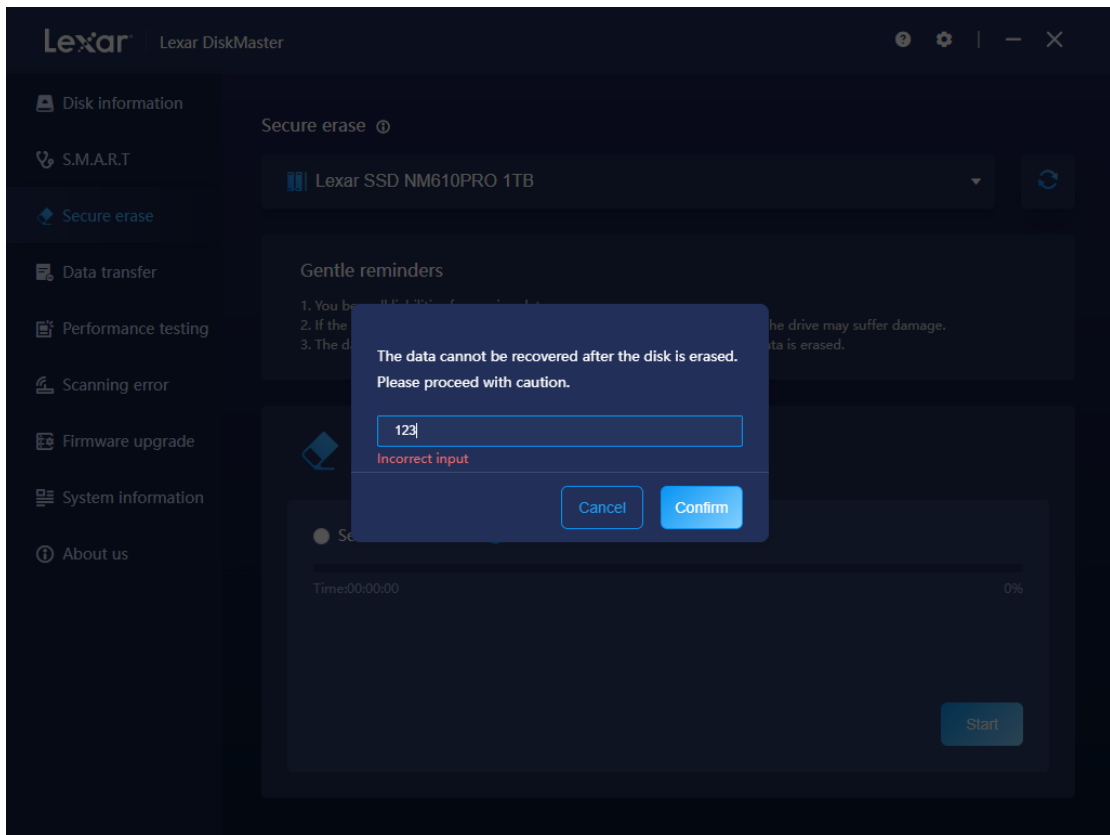
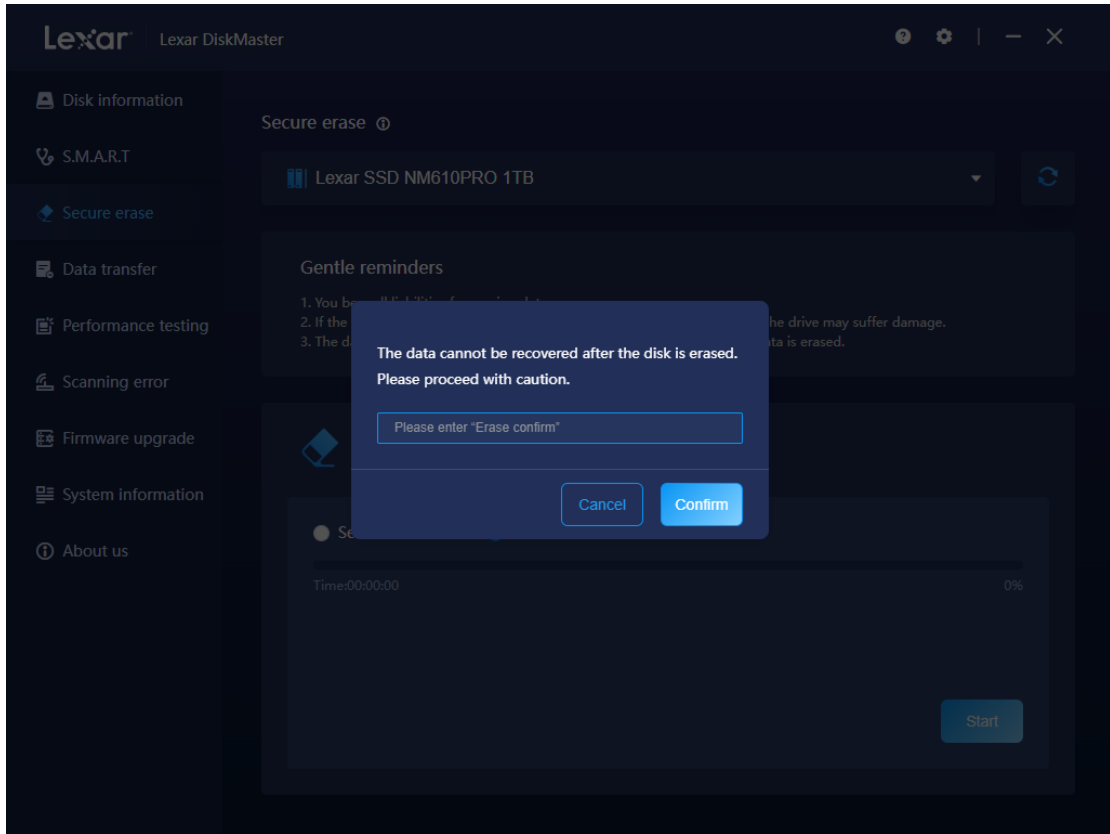
The screenshot shows the Lexar DiskMaster application window. The left sidebar contains navigation options: Disk information, S.M.A.R.T. (selected), Secure erase, Data transfer, Performance testing, Scanning error, Firmware upgrade, System information, and About us. The main area displays the S.M.A.R.T. information for a Lexar SSD NM610PRO 1TB. A table lists various SMART attributes with their IDs, descriptions, warning thresholds, current values, lowest values, true values, and status.

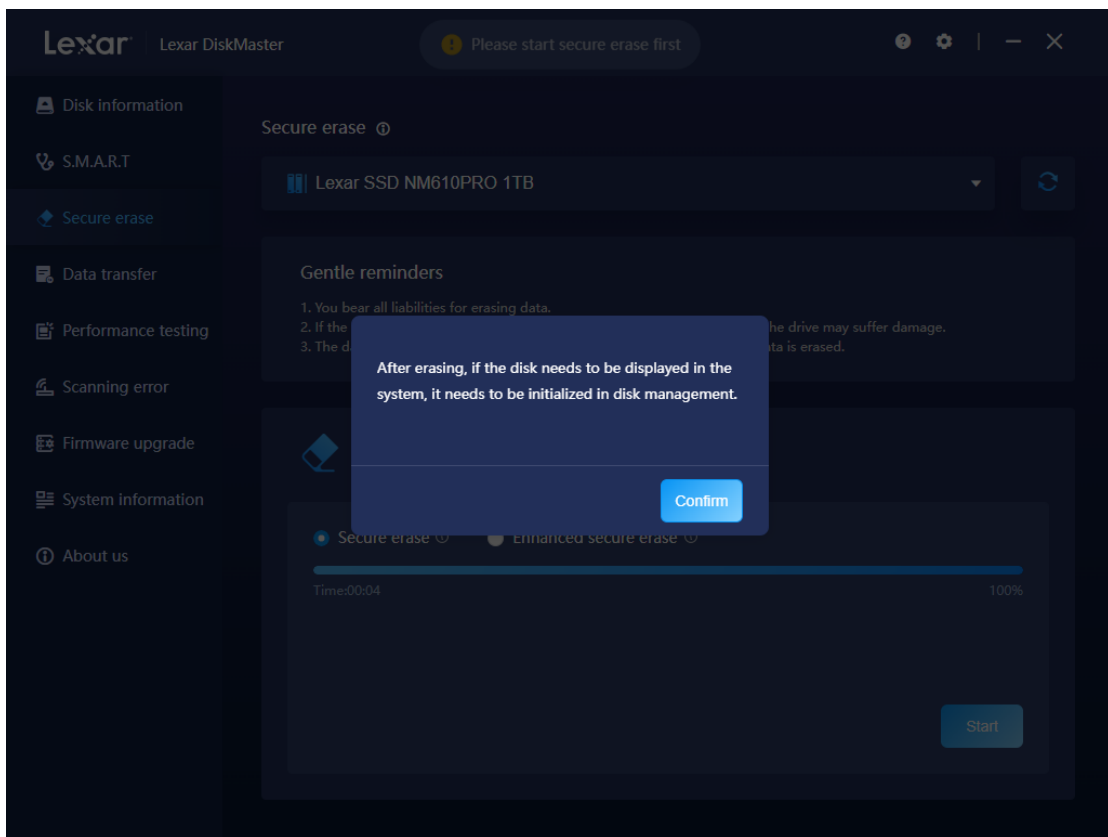
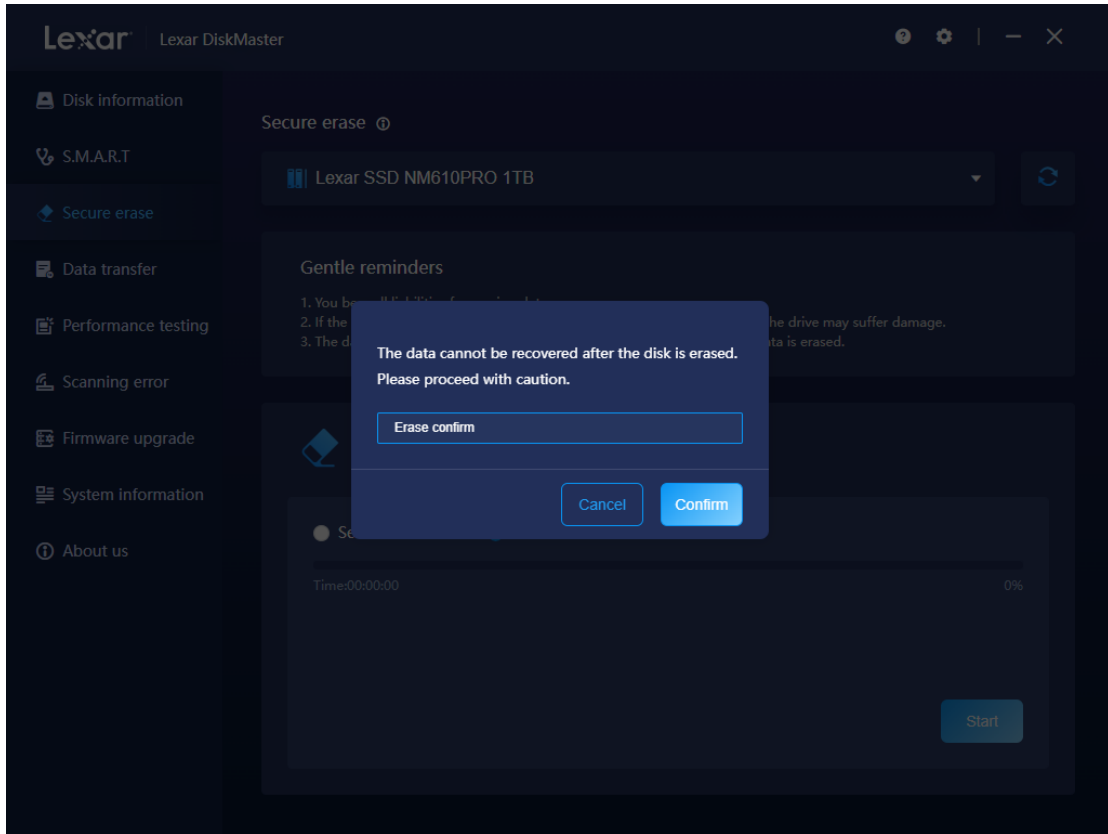
ID	Description	Warning threshold	Current value	Lowest value	True value	Status
01	Critical Warning	0	0	0	0	OK
02	Composite Temperature	0	0	0	300	OK
03	Available Spare	0	0	0	100	OK
04	Available Spare Threshold	0	0	0	10	OK
05	Percentage Used	0	0	0	0	OK
06	Data Units Read	0	0	0	175512	OK
07	Data Units Written	0	0	0	268916	OK
08	Host Read Commands	0	0	0	6540944	OK
09	Host Write Commands	0	0	0	6962571	OK
0A	Controller Busy Time	0	0	0	4	OK
0B	Power Cycles	0	0	0	6	OK
0C	Power On Hours	0	0	0	0	OK
0D	Unsafe Shutdowns	0	0	0	1	OK
0E	Media and Data Error Rate	0	0	0	0	OK

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.







***Important Notes:**

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.

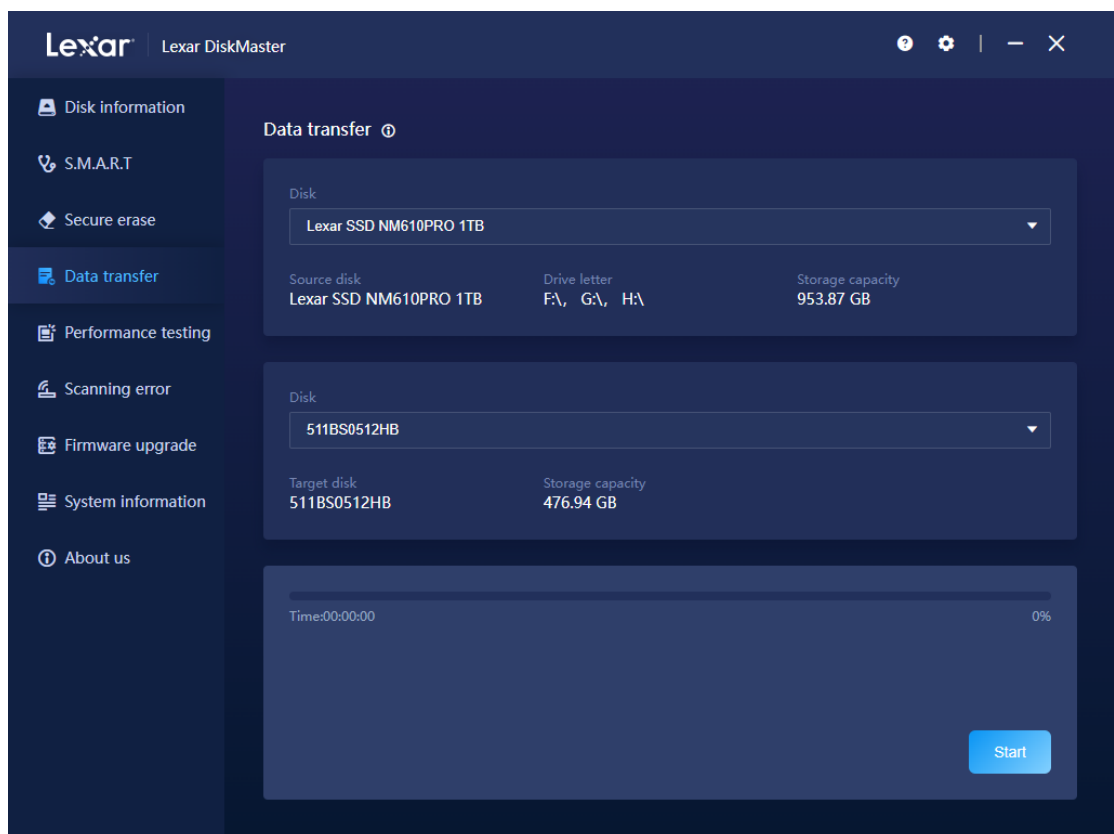
3.3.1.3 After disk erasure, the disk will be in an uninitialized state. If you wish to continue using the disk, please initialize it and create new partitions manually in the Disk Management section of your computer.

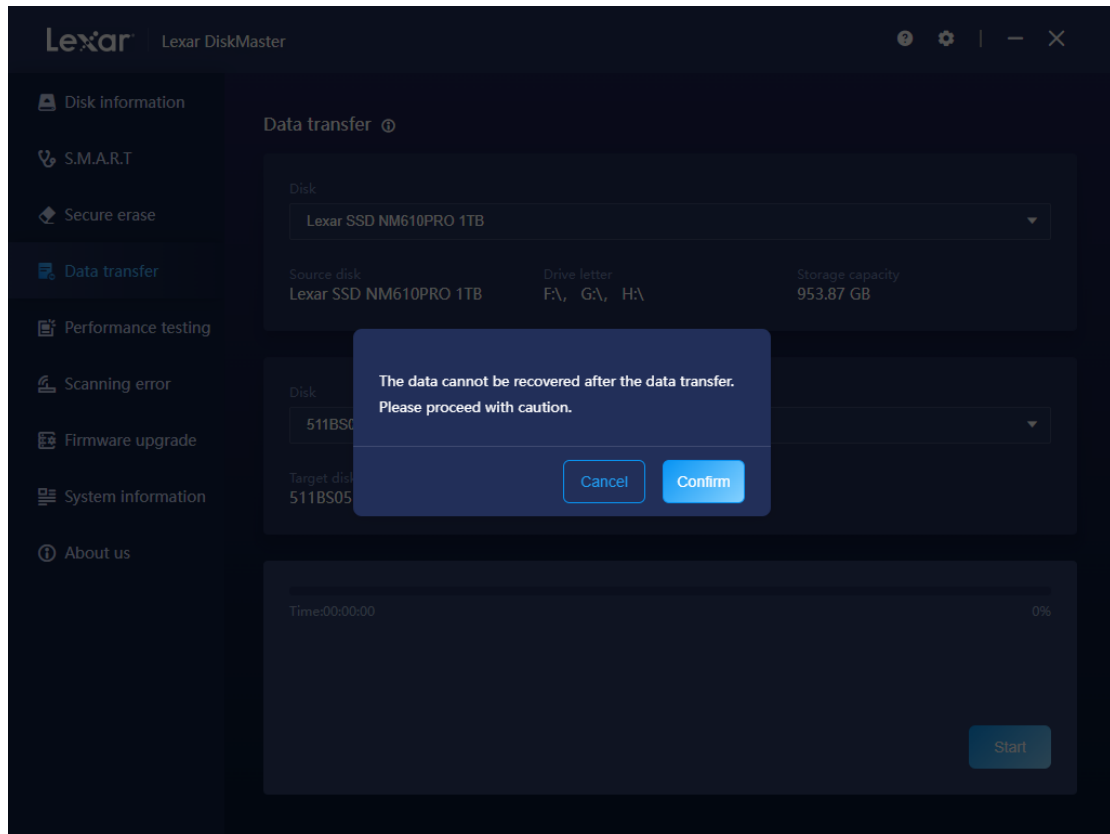
3.3.1.4 Please do not power off the disk or close the client during the erasure process, as it will result in erasure failure.

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.





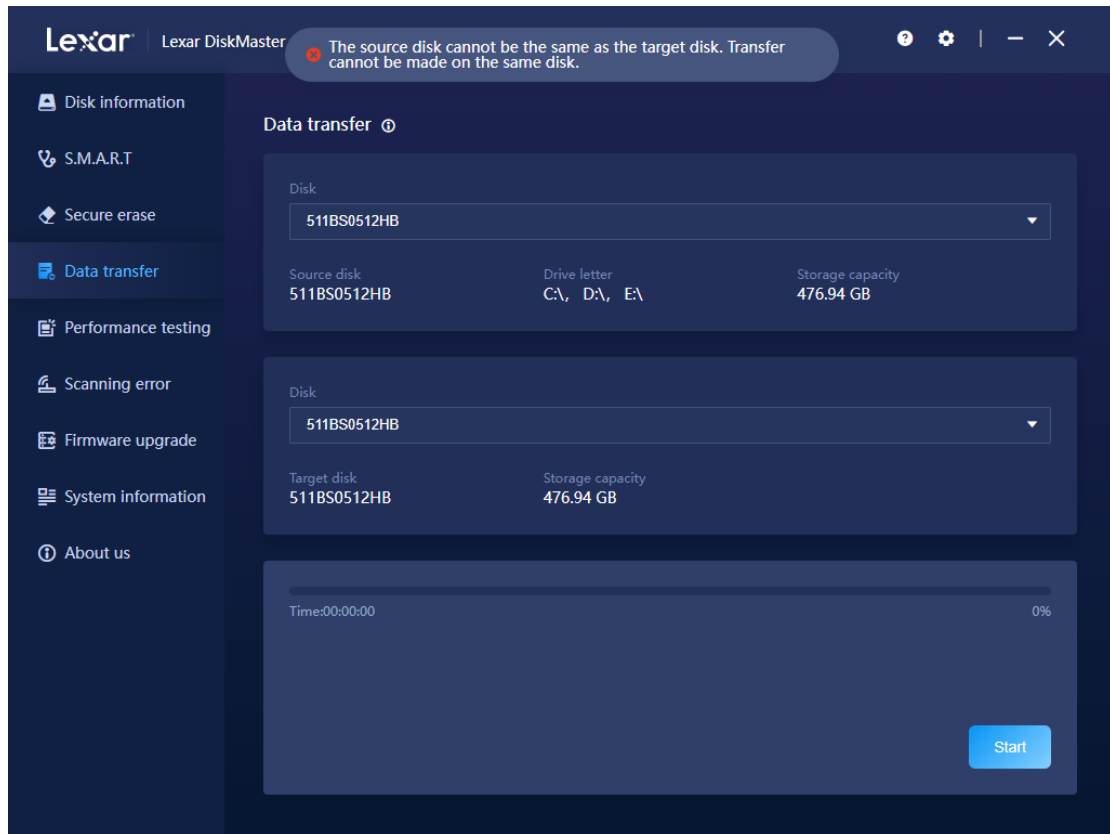
***Important Notes:**

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.



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.

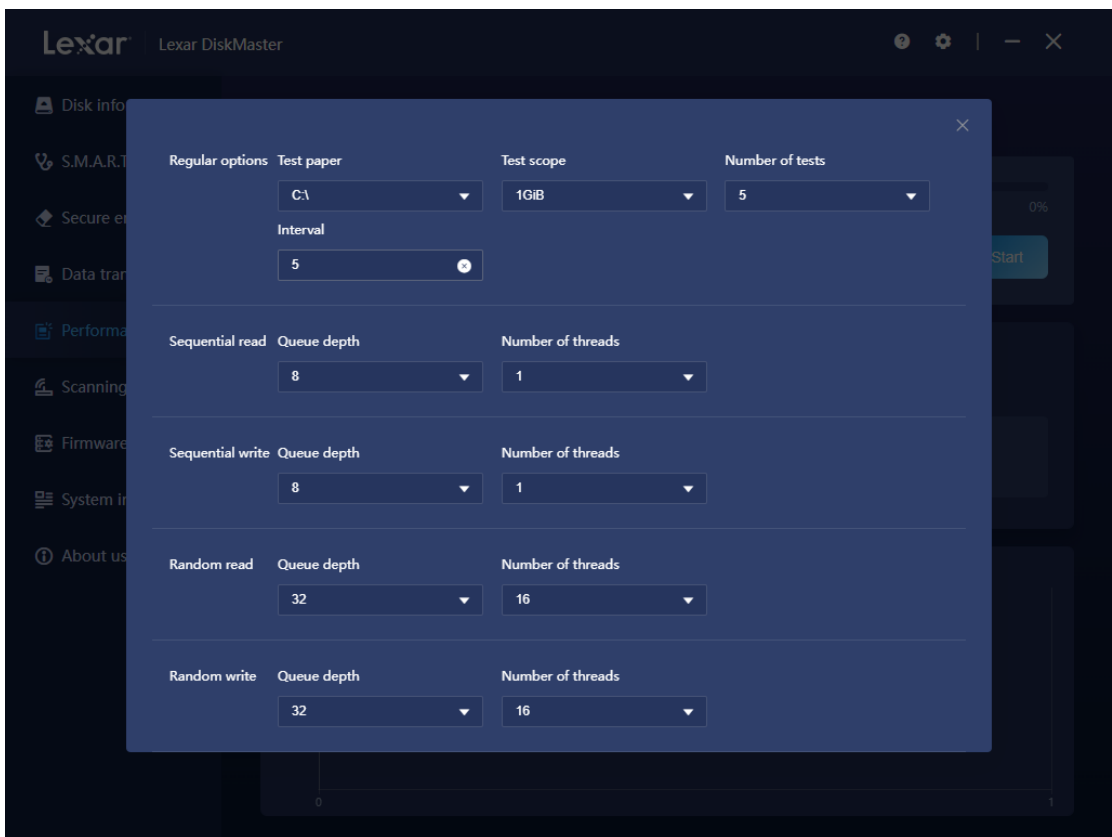
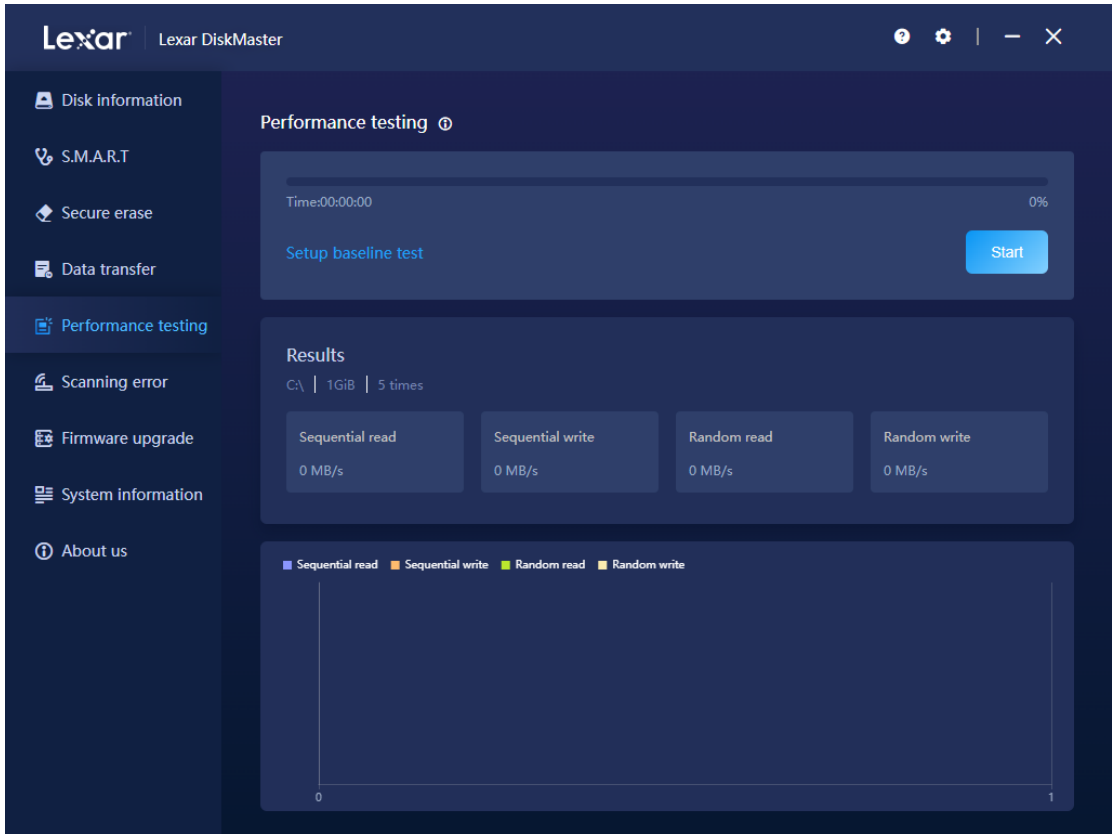
3.4.1.7 Please do not write data to the source disk during the data migration process, as it may cause the migration to fail.

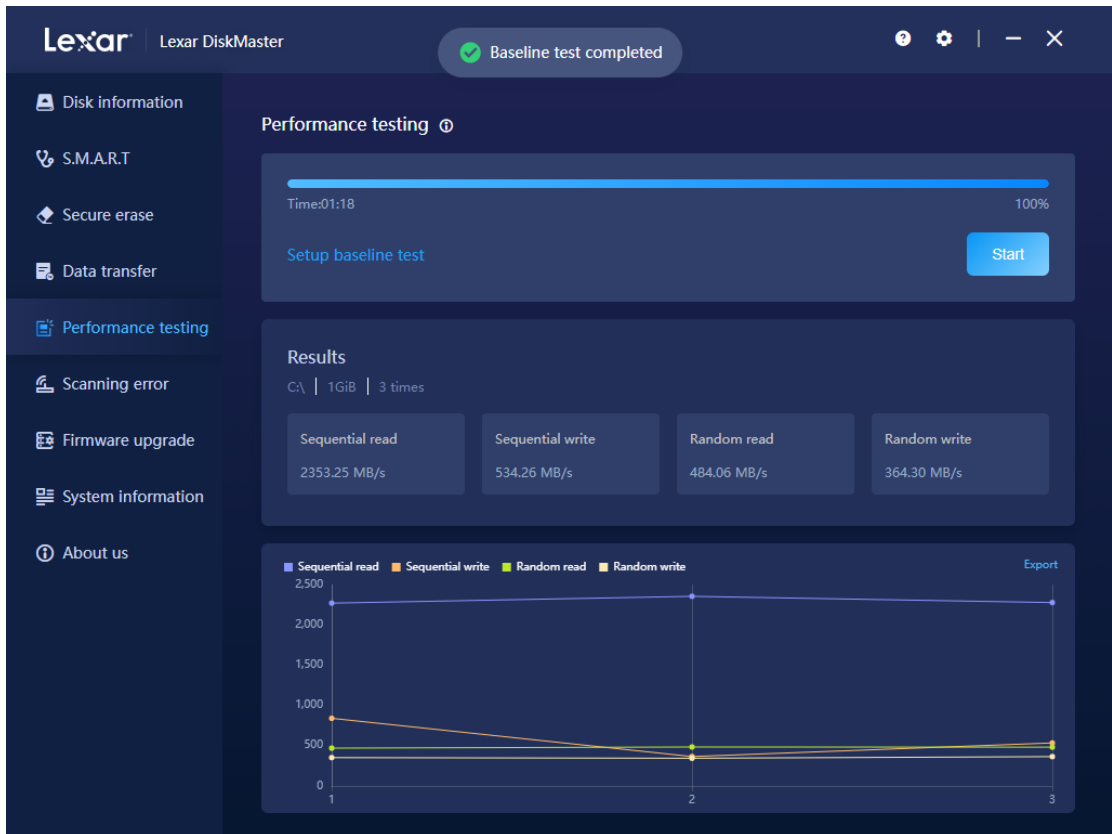
3.4.1.8 Data migration currently does not support resuming from a previous interruption. If the migration is interrupted, the next migration will start from the beginning.

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.





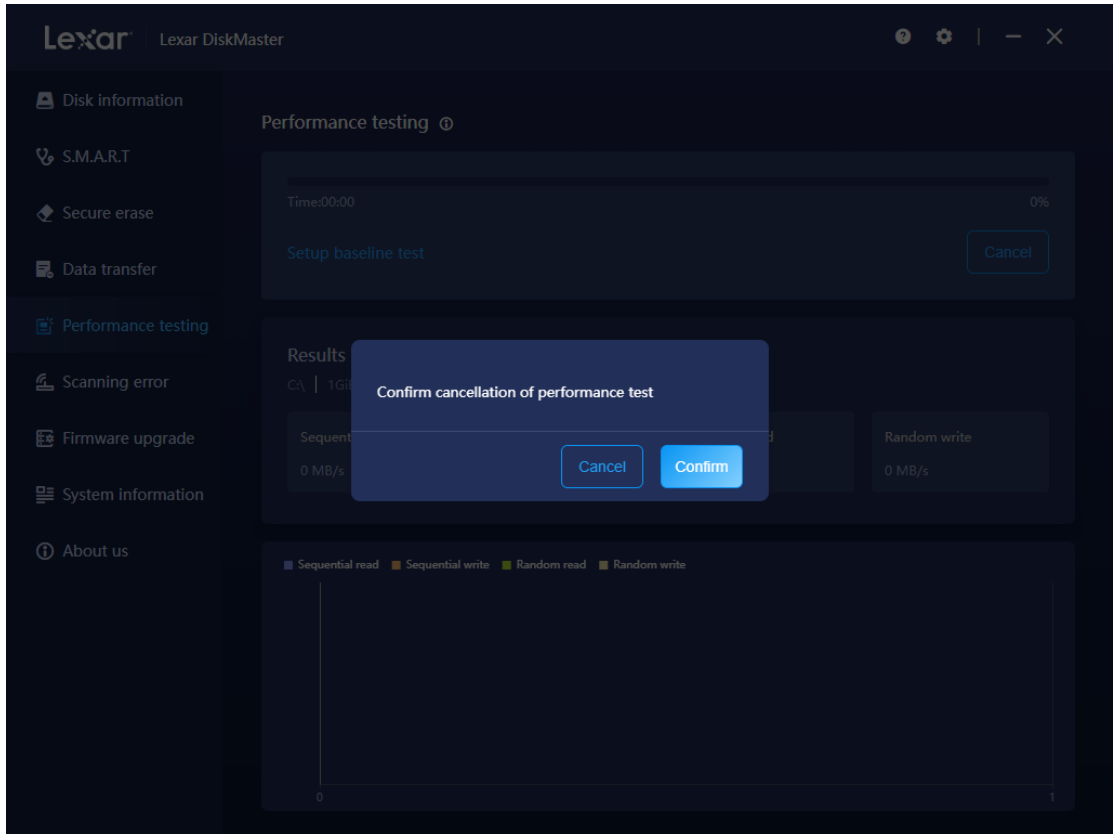
*Important Notes:

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).

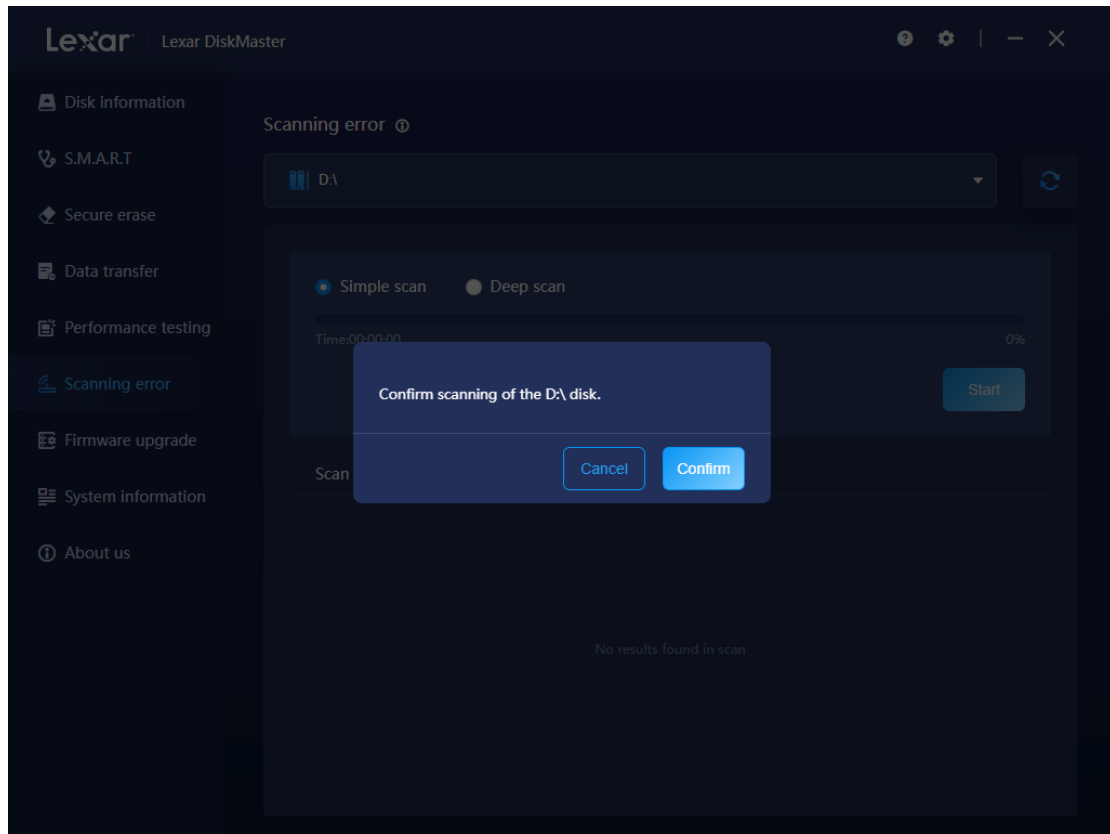
3.5.1.3 Please do not power off the disk during the performance testing, as it will interrupt the testing process.

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.



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.



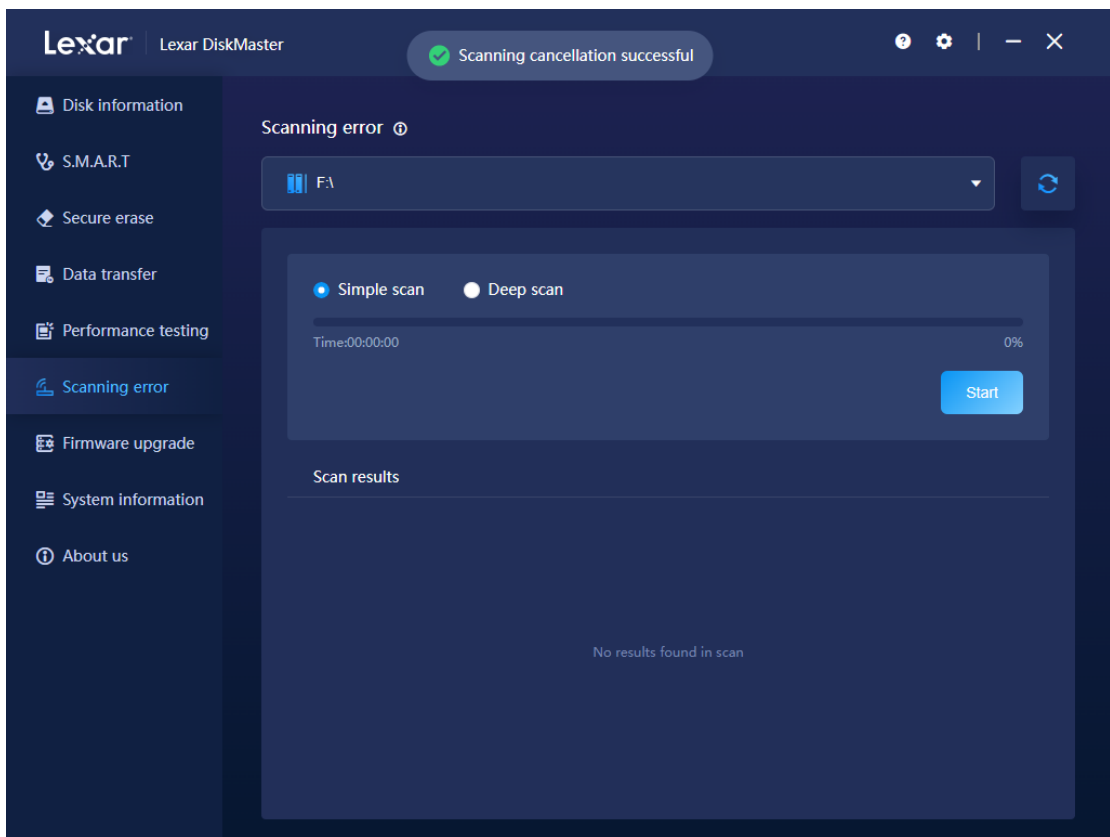
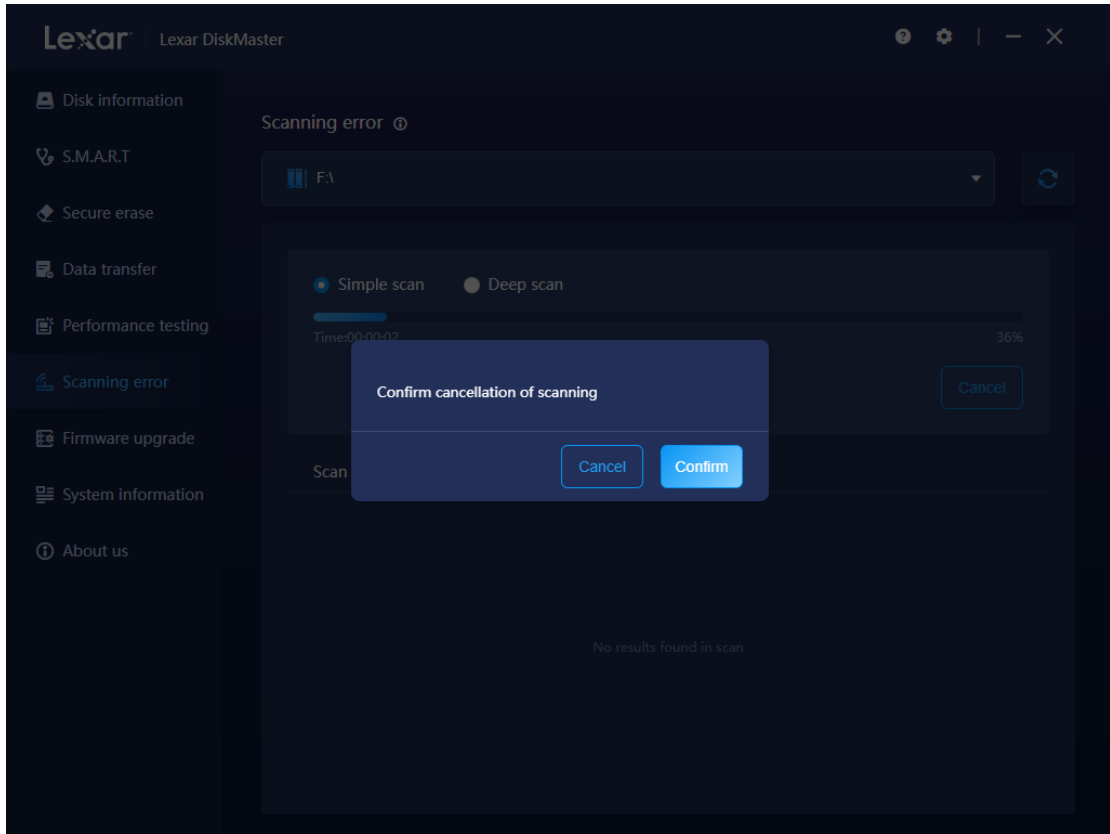
***Important Notes:**

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.

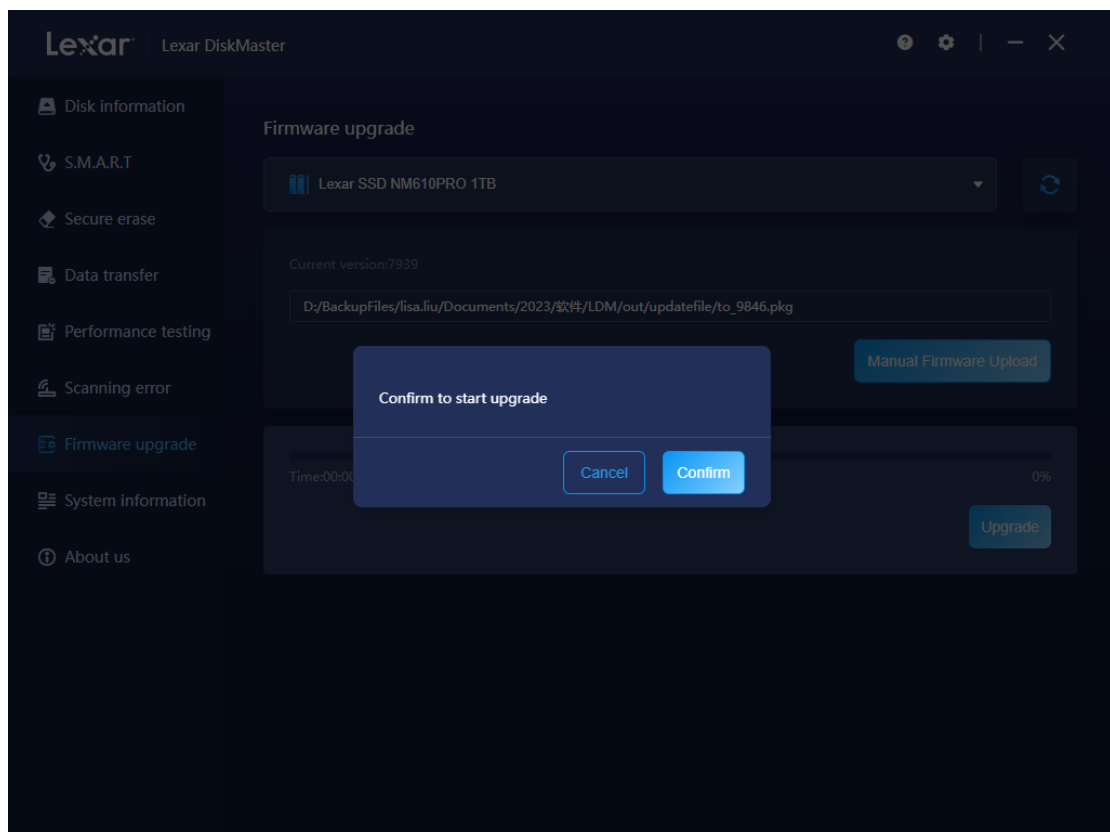
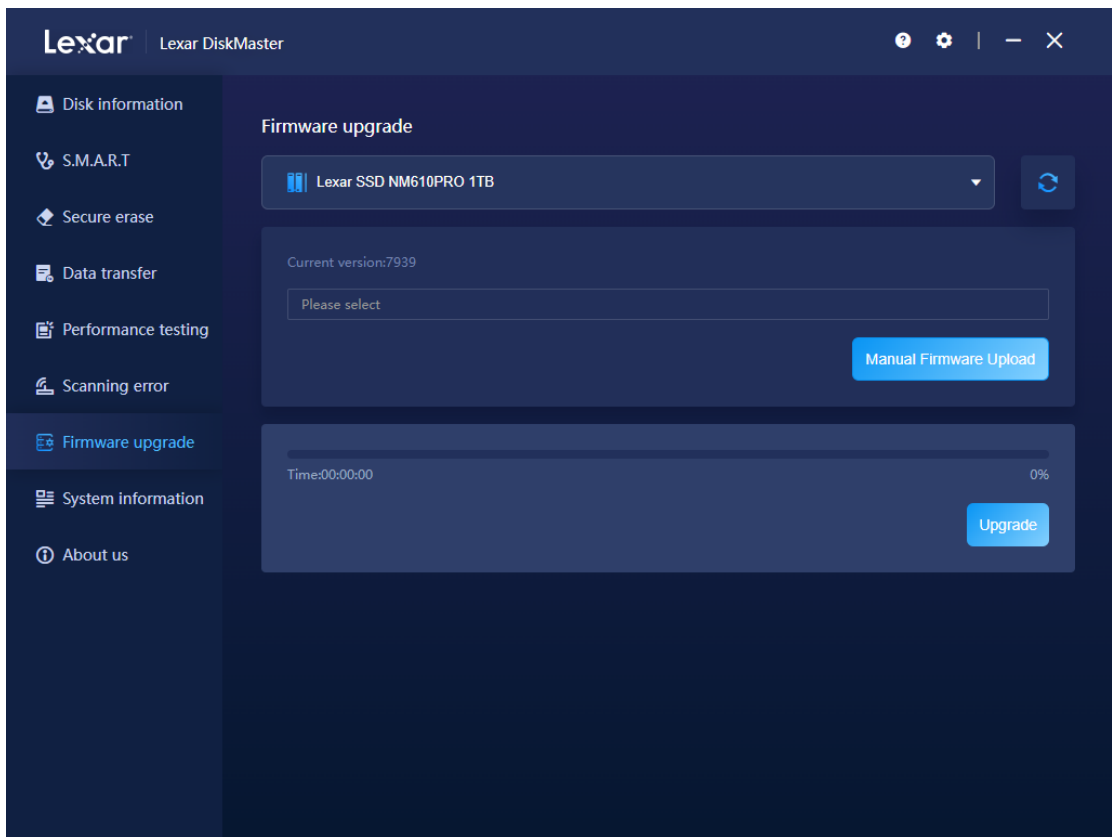
3.6.1.3 During the fault scan, you cannot use other functions within the client or close the client. If you need to perform other operations, you can cancel the fault scan.

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.



3.7 Firmware Upgrade

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



*Important Notes:

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.

