

SSD Utility

User Guide

Software Version 5.6.0015

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Welcome!

SSD Utility enables you to manage and get the best out of your SSDs.

Key features

SSD Utility enables you to:

- See a dashboard view of the status of your SSD
- See a detailed view of SMART attributes
- Update SSD firmware
- Manage over provisioning
- Secure erase data to make it unrecoverable
- Assist technical support in diagnosing problems with views and logs of SSD, computer and SSD Utility details
- Be alerted of issues with drive health, reliability or temperature
- Run a quick benchmark to evaluate your drive performance

For more details of SSD Utility features, see SSD Utility Features on page 5.

System requirements

Supported SSDs include:

	Windows 11	Windows 10 x64
EXCERIA PRO SSD	✓	✓
EXCERIA PLUS G2 SSD	✓	✓
EXCERIA PLUS SSD	✓	✓
EXCERIA G2 SSD	✓	✓
EXCERIA SSD	✓	✓
EXCERIA SATA SSD	✓	✓
EXCERIA PLUS Portable SSD	✓	✓

A CAUTION: Before you start, make back-up copies of any data on the SSD that you want to keep; some operations result in the complete loss of data on the SSD (you are warned if this will happen).

Before using SSD Utility:

- Set the SATA controller to AHCI mode in the motherboard BIOS; for instructions see the user documentation for your computer.
- You must run SSD Utility as an administrator.
- For firmware updates, your computer must be connected to the internet.
- To create a Bootable Media for secure erase / NVMe format your computer must be connected to the internet.

Installing SSD Utility

This guide assumes that you have already correctly installed your SSDs. You can:

- Install SSD Utility in Windows.
- Create a Bootable Media. This enables you to do some things that you cannot do from within your operating system. For example, for some SSDs you cannot update the firmware when running the Windows Operating System. Similarly, secure erase and NVMe format is blocked by the Windows Operating System. The Bootable Media is written to a USB flash drive.

Install SSD Utility in Windows

Download and then run the installer and follow the onscreen instructions.

Create a Bootable Media

You can use a USB flash drive to create a standalone bootable tool called Bootable Media which can be used on your system to do a firmware update to your SSD or a secure erase of your SSD; the SSD Utility will only offer a Bootable Media if it is required – you should create the Bootable Media if prompted.

These instructions assume that you are familiar with the functionality of SSD Utility for firmware update and secure erase / NVMe format.



CAUTION: Before you start, make back-up copies of any data on the SSD that you want to keep. Also any data on the flash drive is erased during this operation. The USB flash drive is automatically formatted as FAT32, which ensures that any files saved onto the drive can be easily read from any Windows system.

Start a Bootable Media

- 1. Insert your USB flash drive into your system, then restart your system.
- Set your BIOS to boot from your USB flash drive; see the relevant user documentation for your system. If your BIOS supports both UEFI and legacy boot, select the legacy boot first. You only need to use UEFI boot if you experience any issues with legacy boot.
- 3. After the system has booted, the script for either firmware update or secure erase will run automatically:

Firmware Update:

This will automatically update the firmware on the SSD selected when the Bootable Media was created. The Bootable Media running a firmware update will provide a warning message and ask you to confirm the firmware update; please type yes to proceed.

A CAUTION: Do not power off the system until the operation is complete.

Secure Erase:

This will automatically secure erase the SSD selected when the Bootable Media was created. Since this will delete all data from the SSD, the script will provide a warning message then request confirmation that the secure erase command should be run; with the following message:

"Are you sure you want to erase your drive? (yes/no):"

To proceed, type yes. To cancel the operation type no.

The script will ask you to confirm the suspend/resume erase process; please type yes to proceed.

After the system has shutdown, remove the USB flash drive from the system, power-on your system and

select boot from internal drive and UEFI boot to restart your Windows system.

If your selected SSD is a SATA drive, the system will lock the drive during the boot process. The script will unlock the drive using suspend and resume commands; however, these commands can stop the display from working on some systems. The secure erase will still be executed, but there will not be a message displayed when the erase finishes; instead the system will automatically shutdown after the command has completed. The process should take no longer than 5 minutes. If your PC does not shutdown please manually shutdown, remove USB and contact KIOXIA Customer Support.

Starting SSD Utility

A shortcut to SSD Utility is installed along with the application, for example in the Start menu under **KIOXIA Corporation - SSD Utility**. Click this to run SSD Utility.

Uninstall SSD Utility

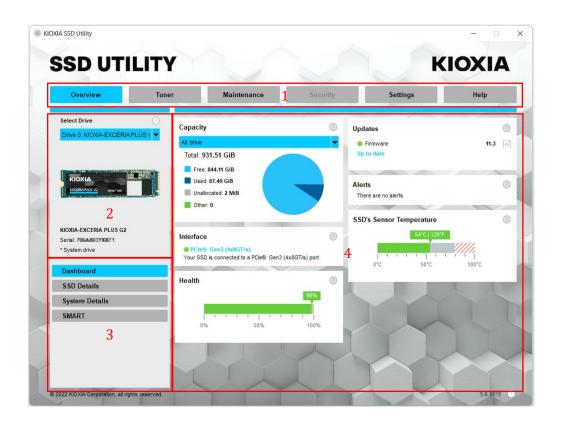
To uninstall from Windows, use the standard uninstall facility in Control Panel, or run the installer again and select **Remove**.

To remove Bootable Media from your USB flash drive:

- 1. Insert the USB drive into a Windows computer.
- 2. Reformat the USB drive, which enables you to access the full drive capacity again.

UI overview

The SSD Utility window is divided into panes.



- 1. **Options bar** main tasks you can carry out; what you click here changes what is shown in the main pane and further tasks are listed in the drive list pane
- 2. Select drive list a list of SSDs attached to the current computer. If you only have one SSD attached to your computer, it is automatically selected. When you have more than one SSD attached, ensure that you select the SSD you want before you click an option in the options bar
- 3. Task list tasks you can carry out; task status information
- 4. Main pane displays information you request, or fields for a task

SSD Utility Features

Functional Overview

SSD Utility supports the features in the following table, listed by their location in the user interface. Only the features supported by the selected drive are available. If you have more than one supported SSD, then options apply to the drive in the **Select Drive** list. To access the features that can apply to more than one drive, select **All Drives** from this list.

To view instructions for a task or information about what is shown in a pane, click (1). The Help is shown in a separate window that you can move, scroll through and close when finished. The Help includes links to further information online.

If you do not find the information you need in the Help or in this guide, you can contact our technical support team; for details, see the company Website online or the contact details on the help page in the product. (see below).

Option	Task	Feature
Overview	Dashboard	A quick overview of the status the of the drive, including:
		Capacity - current usage of the drive
		Updates - available updates to firmware and device drivers
		Interface - status of the physical interface connection
		Alerts - any drive condition needing attention
		Health - remaining drive lifetime ■ = SSD operating optimally (100% to 21%) ■ = consider replacing your SSD to prevent future data loss (20% to 11%) ■ = replace your SSD urgently (10% to 0%) When the value of the "Health Gauge" reaches zero (0), the SSD has reached its warranty limit. This may occur within the warranty period. ■ = 0% 50% 100%
		SSD's sensor temperature - temperature measured by the SSD's sensor (may be higher or lower than SSD case temperature)
	SSD Details	Shows details on your SSD, which may be useful when contacting technical support
	System Details	Shows details on your computer, which may be useful when contacting technical support
	SMART	Shows current SMART attribute values, which can help you decide if there is a problem with your SSD
Tuner	SSD Tuner	Over Provisioning - reserve an area of your SSD to improve the performance and lifetime of your drive (Windows NTFS volumes only)
	Benchmark	Provides a quick benchmark to evaluate the performance of your SSD in your system

Option	Task	Feature
Maintenance	Updates	Firmware Update - for a selected drive, provides advanced methods of updating SSD firmware, including from a local file.
		Firmware Updates - when All Drives is selected, you can apply any firmware updates that are available for all drives in your system in a single operation Note: To update firmware on many types of SSD you will need to create a Bootable Media on to a USB flash drive – see section "Create a Bootable Media"
	Tools	Secure Erase - delete all the data from your SSD so that it is unrecoverable (non-NVMe SSDs)
		NVMe[™] Format - low level format an NVMe SSD, including changing the LBA format and securely erasing the data
		Note: To secure erase / NVMe format SSDs you may need to create a bootable system on to a USB flash drive – see section " Create a Bootable Media "
	Alerts	Shows a detailed report of all the alert conditions that may require attention, plus any that have occurred in the past. If All Drives is selected, the alerts for all drives are shown, including any drives that may no longer be active in your computer
Security	Password Protection	Set Password on a device
		Unlock device with a password Remove Password from a password protected device
		For more information on the password protection, see <u>"Password Protection</u> <u>Features"</u> .
Settings	Settings	General application configuration, including:
		Language - the user interface language
		Monitoring - whether SSD Utility stays running to monitor your SSDs
		Notifications - suppress task tray notifications for alerts, updates and system events
		Logging - enable logging to help technical support diagnose problems
		Run in the Background - enable tool to run in the Background
		Run at login - automatically runs tool when login
Help	Help	Contact Us - links to online support information
Any	View Alerts	Appears at the bottom of each task list if there are active alerts; click it to take you to the detailed alerts report
	SSD Utility Update	Appears next to the version number at the bottom right of the UI if a new version of SSD Utility is available

Password Protection Features

The EXCERIA PLUS Portable SSD allows you to lock the device with a password to prevent others from accessing the user data area within the device. Please follow the instructions below to use the password protection feature.

The password protection requires the following two passwords

· Master Password:

This is the password to disable the password protection. This is a 32-character alphanumeric password that SSD Utility will generate and display when you enable the password protection in "Set Password" below. If you forget the Master Password, you will not be able to remove both passwords and disable the password protection feature.

• User Password:

This is the password used to unlock the device locked by the password protection. This is a password of 8 to 32 alphanumeric characters to be entered by the user when activating the password protection in the "Set Password" procedure below. Entering the User Password when "Unlock device" will unlock the device and allow access to the user data area within the device. If you forget your User Password, you will not be able to unlock the device and access the user data area. In this case, please follow the "Remove Password" procedure described below to remove both passwords using the Master Password and disable the password protection.

AUTION :

- You must keep your Master Password and User Password safe for yourself.
- You must keep your Master Password as a new password will be displayed each time you "Set Password".
- If you lose both your User Password and Master Password, your device will be permanently locked and you will not be able to access your user data area.

There is no function to change user or Master Passwords. If you wish to change your password, please execute "Remove Password" and then execute "Set Password" again.

To execute the "Set Password" procedure, "Unlock device" procedure, and "Remove Password" procedure from the next page, please execute the SSD Utility while the EXCERIA PLUS Portable SSD is connected to your PC.

"Set Password" procedure:

1, Select the "Security" tab.

IOXIA SSD Utility					- 0
SSD UT	LITY				KIOXIA
Overview	Tuner	Maintenance	Security	Settings	Help
Select Drive	Capac	ity	① Up	dates	0
Drive 1: KIOXIA-EXCERIA	All driv	e	-	Firmware	19.2
	Total	1.82 TiB	U	p to date	

2, Click on the "Set Password" button.

SSD UTI	LITY			K	XIOXIA
Overview	Tuner	Maintenance	Security	Settings	Help
Select Drive Drive 1: KIOXIA-EXCERIA P	⊘ LUS∮ ▼	vord Protection			(
KIONA		A Password has not been set or you would like to set a passv	n your Portable SSD, and the de word, please click the "Set Pass security lock process.	vice is currently unlocked. If word" button to begin the	
					\checkmark
KIOXIA-EXCERIA PLUS Portal				ution	
	, v	Varning: Once your device has b	een locked with a password without it.	I, you will not be able to acces	s your Portable SSD
Password Protection			Set Passwor	d	
					11
			Y		

3, Enter the password (User Password) in the pop-up window that appears and click the "OK" button. Please note that the User Password should be any 8 to 32 single-byte alphanumeric characters (a to z, A to Z, 0 to 9; spaces are not allowed).

🛞 Create Password		×
Enter your new password	d (8-32 Alphanumeric	characters)
		\checkmark
	New Passwor	
	New Password Confirm	•••••

4, Password protection configuration will begin. Please wait until it is finished. Note: Do not remove the device until it is finished.

Once the password protection configuration is successfully completed, the popup below will close automatically.

SD Utility will	I now configure Password Protection on this device. The process may take up to 1 minut
WARNING	DO NOT REMOVE YOUR DEVICE DURING THIS PROCESS AS IT MAY PERMANENTLY DISABLE THE DEVICE!
	Initial Setup commencing.
	 SID password changed takeOwnership complete
	Locking SP Activate Complete
	LockingRange0 disabled

5, The Master Password will be displayed.

Note: Be sure to keep your Master Password, as you will need it to "Remove Password". Once you have securely stored the Master Password, click the "Close" button.

🛞 Master Password	
Master password is displayed below.	
If you forget the user and master password the drive will be permanently locked and unusable.	
The master password is required to remove user password	
The master password is 32 characters. The first 12 characters are the drive serial number. The final 20 characters are uppercase / lowercase letters.	
Note: For the final 20 characters care is required for any character which is 'I/I', this could be either uppercase 'i' or lowercase 'L'.	
E 100 DO 100 4Y 4NULIWING THE ONUM	
Close	

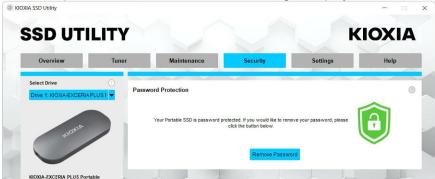
- 6, A warning will appear. Please confirm again that you have stored the Master Password and click the "Close" button.
 - Note: Once you close this pop-up, you will not be able to re-display the Master Password. Please be sure to keep the Master Password for yourself.

8 Master Password	\times
Master password is displayed below.	
If you forget the user and master password the drive w permanently locked and unusable.	ill be
The master password is required to remove user pass	word.
The master password is 32 characters. The first 12 characters are the drive serial number. The final 20 characters are uppercase / lowercase letters.	
Note: For the final 20 characters care is required for a character which is 'l/', this could be either uppercase lowercase 'L'.	
618F3018F4Y4MLNinsghtiGgTyfFOHBH	
WARNING! The master password will not be displayed again Click close button again after made sure you have sav	
Close	

7, A pop-up window will appear after the password has been set. Click the "OK" button.



8, Password protection is enabled and the following is displayed.



If ⁽¹⁾ is displayed as shown above, the device is unlocked and you can access the user data area in the device.

If you wish to lock the device, safely disconnect the device from the USB port and reconnect it. If is displayed, the device is locked and the user data area in the device cannot be accessed.

This completes the "Set Password" procedure.

If "Set Password" fails

If you use a USB port with unstable connection and/or operation, "Set Password" may fail during the process. If it fails during the process, the following pop-up may appear.



If this pop-up is displayed, click the "OK" button to close the pop-up window, change the USB port to which the device is connected, execute the "Remove Password" operation, and then perform the "Set Password" operation again.

Procedure for confirming that the SSD is locked with password protection

To ensure that your EXCERIA PLUS Portable SSD is password protected by SSD Utility, please follow the steps below.

1, Safely disconnect the EXCERIA PLUS Portable SSD from your PC.

-	Open Devices and Printers
-	Eject EXCERIA PLUS
	- KIOXIA (D:)

2, Execute the SSD Utility on your PC.

Overview	Tuner	Maintenance	Security	Settings	Help
Select Drive	0	2 NO NO			
No drive available	-				
Serial:	No su	pported drives found			
Dashboard	_				
System Details					

- 3, Connect the EXCERIA PLUS Portable SSD to your PC.
- 4, If the SSD Utility recognizes the EXCERIA PLUS Portable SSD and a black shield icon appears, the device is locked by password protection.

Overview	Tuner	Maintenance	Security	Settings	Help
Select Drive Drive 1: KIOXIA-EXCERIA	Plus f ▼	vord Protection			0
Â		F If you have forgotten your user p	lease enter user password. bassword, you can remove the p password.	passwords using the master	
		Pas	sword	Unlock device	-
KIOXIA-EXCERIA PLUS Port	table		Remove Passw	vord	

If the black shield icon does not appear here, select "KIOXIA-EXCERIA PLUS Portable" from

"Select Drive" and select the "Security" tab. If the "Remove Password" button appears even though you have not "Unlocked the device" as shown below, the password protection may not be set correctly. In this case, please click the "Remove Password" button to remove the passwords, and then try "Set Password" again.

Overview	Tuner	Maintenance	Security	Settings	Help	
Select Drive Drive 1: KIOXIA-EXCERIA PLU	⊘ Passv	vord Protection				0
ROXIA		Your Portable SSD is password (click the button below.	_		
	F		Remove Passv	word		

"Unlock device" procedure:

1, Select the "Security" tab.

KIOXIA SSD Utility	,				- n ×
SSD UT	ILITY			F	KIOXIA
Overview	Tuner	Maintenance	Security	Settings	Help
Select Drive	()	uara Undata	0	Y	

2, If the device is locked, a pane for entering a password will appear. Enter your own password (User Password) in the password entry field and click the "Unlock device" button.

Overview	Tuner	Maintenance	Security	Settings	Help
Select Drive	0 Base	word Protection			
Drive 1: KIOXIA-EXCERIA	PLUS F				
		P	lease enter user password.		A
Â		lf you have forgotten your user p	assword, you can remove the p password.	passwords using the master	

3, The device will unlock and a pop-up will appear. Click the "OK" button.



, The device will be unlocked and ${}^{igsilon 0}$ will be displayed as shown below.



This completes the "Unlock device" procedure.

If you enter an incorrect User Password during "Unlock device", the following pop-up will appear. Click "OK" to close the pop-up window and enter the correct User Password to "Unlock device" again.



If you enter the wrong User Password five times in a row, the following will appear on the SSD Utility. In this case, please disconnect the target device from the USB port safely, reconnect it, and then execute "Unlock device" again.

	Password Protection	0
	Maximum retries exceeded, power cycle drive by removing from USB port and reinserting, to try again. The user password can also be removed by providing the master password.	
/	Remove Password	

If you do not know the correct User Password, you cannot execute "Unlock device". To disable the password protection, please execute "Remove Password".

"Remove Password" procedure:



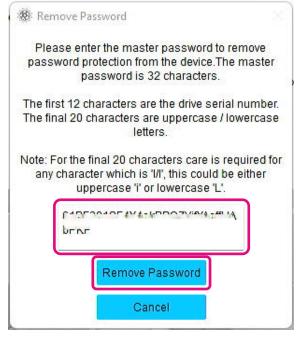
2, Depending on the lock status of the device, one of the following will be displayed. In either case, click the "Remove Password" button.

If the device is Locked:

If the device is Unlocked:



3, A pop-up will appear asking you to enter Master Password. Enter the stored Master Password and click the "Remove Password" button.

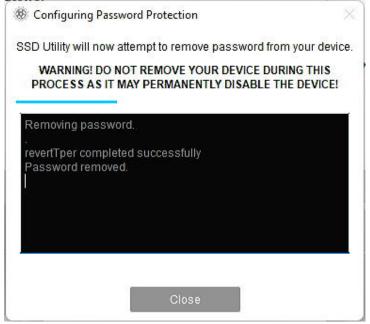


4, A warning will appear. Confirm the contents and click "OK" button.



5, Password deletion will be executed. Please wait until it finishes. Note: Do not remove the device until it finishes.

If the Remove Password is successful, the popup below will close automatically.



6, The password will be removed and a pop-up will appear. Click the "Close" button.

89 R	emove Password >	
E	oth user and master passwords removed.	
	Close	

7, The password will be removed and the following will be displayed.



This completes the "Remove Password" procedure.

If you entered an incorrect Master Password during "Remove Password", the following pop-up will appear. Please enter the correct Master Password and click the "Remove Password" button again.



If you enter the wrong Master Password four times in a row, the following warning will appear on the pop-up window. Click the "Close" button, disconnect the device from the USB port safely and reconnect it, and then execute "Remove Password" again.



If you do not know the correct Master Password, you cannot execute "Remove Password".

Targe	et Products					1	1	1	1	
Option	Task	Feature	EXCERIA PRO SSD	EXCERIA PLUS G2 SSD	EXCERIA PLUS SSD	EXCERIA G2 SSD	EXCERIA SSD	EXCERIA SATA SSD	EXCERIA PLUS Portable SSD	Note
Overview	Dash Board	Capacity	✓	~	~	~	~	~	~	Only supported on Windows NTFS formatted drives for Bootable Media.
		Updates	✓	✓	✓	✓	✓	✓	✓	
		Interface	✓	✓	✓	✓	✓	✓	✓	
		Alerts	✓	✓	✓	✓	✓	✓	✓	
		Health	✓	✓	✓	✓	✓	✓	✓	
		SSD's sensor temperature	✓	✓	✓	✓	✓	✓	✓	
	SSD Details	SSD Details	✓	✓	✓	✓	✓	✓	✓	
	System Details	System Details	✓	✓	✓	✓	✓	✓	✓	
	SMART	SMART	✓	✓	✓	✓	✓	✓	✓	
Tuner	SSD Tuner	Over Provisioning	✓	~	~	~	~	~	~	Only supported on Windows NTFS formatted drives.
	Benchmark	Benchmark	✓	✓	✓	✓	✓	✓	✓	
Maintenance	Updates	Firmware Update	✓	✓	✓	✓	✓	✓		
	Tools	Secure Erase	✓	✓	✓	✓	✓	✓		
		NVMe Format	✓	✓	✓	✓	✓	1	1	
	Alerts	Alerts	✓	✓	✓	✓	✓	✓	✓	
Security	Password Protection	Password Protection							✓	
Settings	Settings	Language	✓	✓	✓	✓	✓	✓	✓	
		Monitoring	✓	✓	✓	✓	✓	✓	✓	
		Notifications	✓	✓	✓	✓	✓	✓	✓	
		Logging	✓	~	~	✓	✓	✓	✓	
		Run in the Background	✓	✓	~	✓	✓	✓	✓	
		Run at login	✓	~	~	✓	✓	✓	✓	
Help	Help	Contact US	✓	~	~	✓	✓	✓	✓	
All	View Alerts	View Alerts	✓	~	~	✓	✓	✓	✓	
	SSD Utility Update	SSD Utility Update	✓	✓	✓	✓	✓	✓	✓	