

Apacer USB SMART

User Manual for Comprehensive Disk Monitoring Utility

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Version 1.0



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1. Introduction

Apacer USB SMART is a S.M.A.R.T (Self-Monitoring, Analyzing, and Reporting Technology) disk monitoring tool which provides disk attribute information informing users of the condition of Apacer USB flash drive connected to your host and allows you to export SMART logs of the drive for record.

This user manual will guide you through the steps of installing and operating the utility.

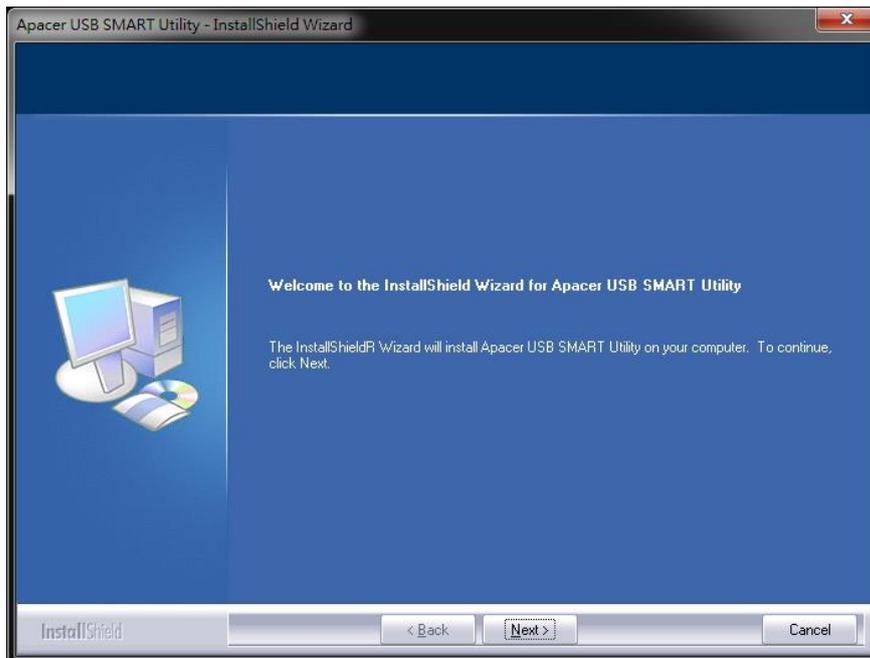
2. System Requirements

Item	Description
Operating System	Windows XP, 7, 8, 10 <i>Note: If you have encountered an issue to run the utility in Windows 7, 8 and 10, you may have to switch off Windows User Account Control to run this program.</i>
Disk Space	More than 10MB free disk space.
Applicable Device	Only available and workable for Apacer storage devices with SATA 6 Gb/s and PCIe interface/controller.

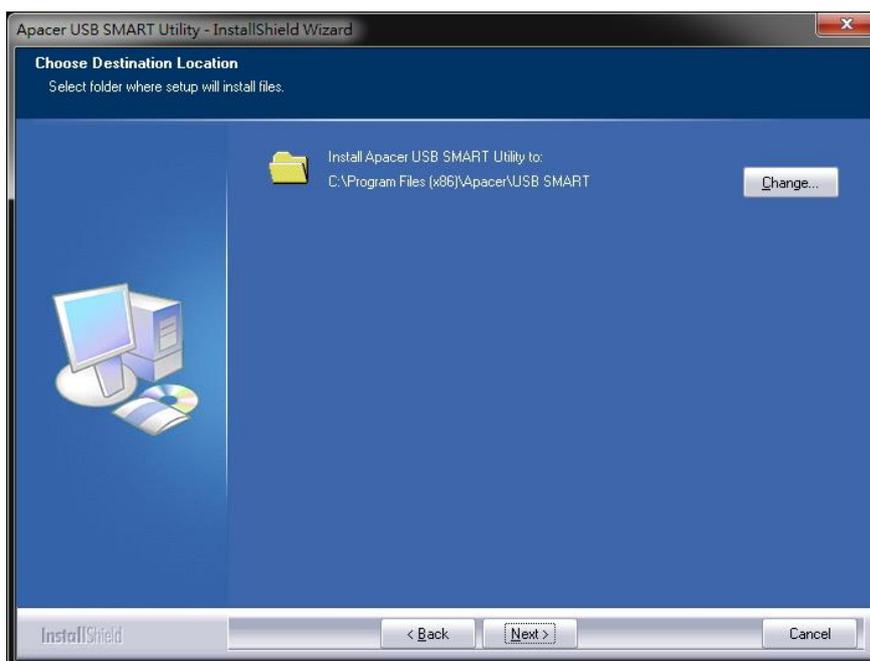
3. Install Apacer USB SMART

Before monitoring your Apacer USB flash drive, please follow the steps below to install Apacer USB SMART.

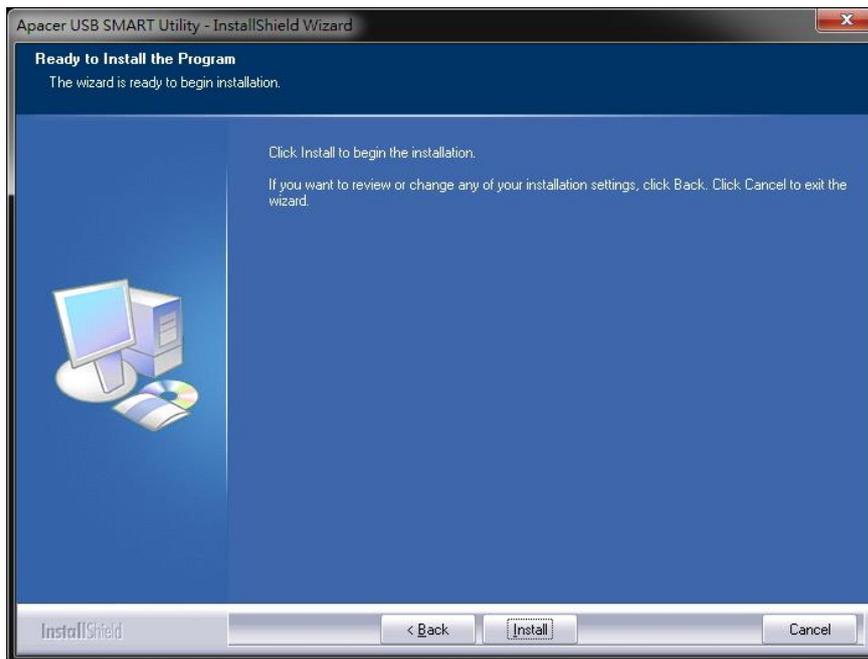
1. Double-click the icon  to launch the install wizard. You will see “Welcome to the InstallShield Wizard for Apacer USB SMART”. Click **Next** to proceed.



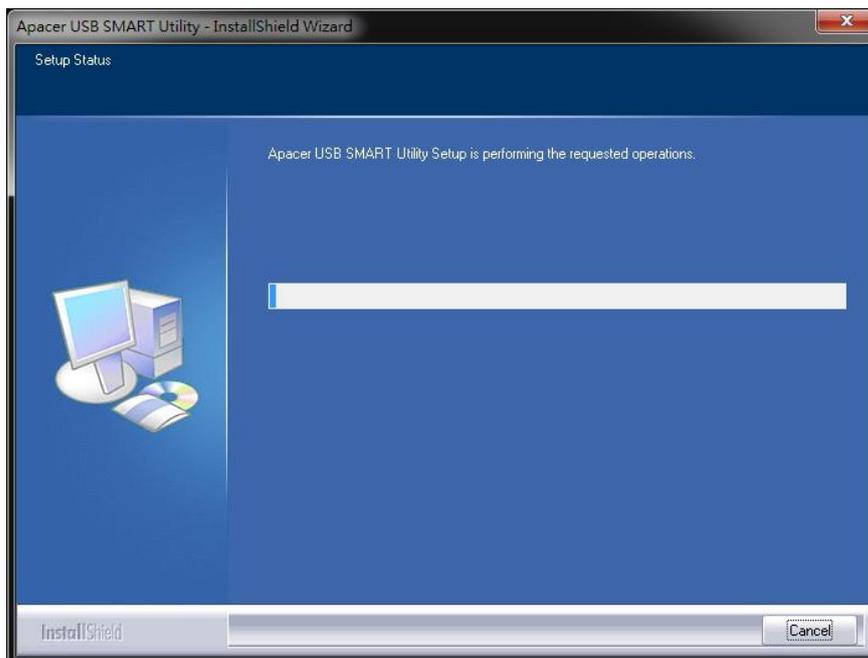
2. Choose a destination folder to store the utility program. You may click **Change** to select another destination path.



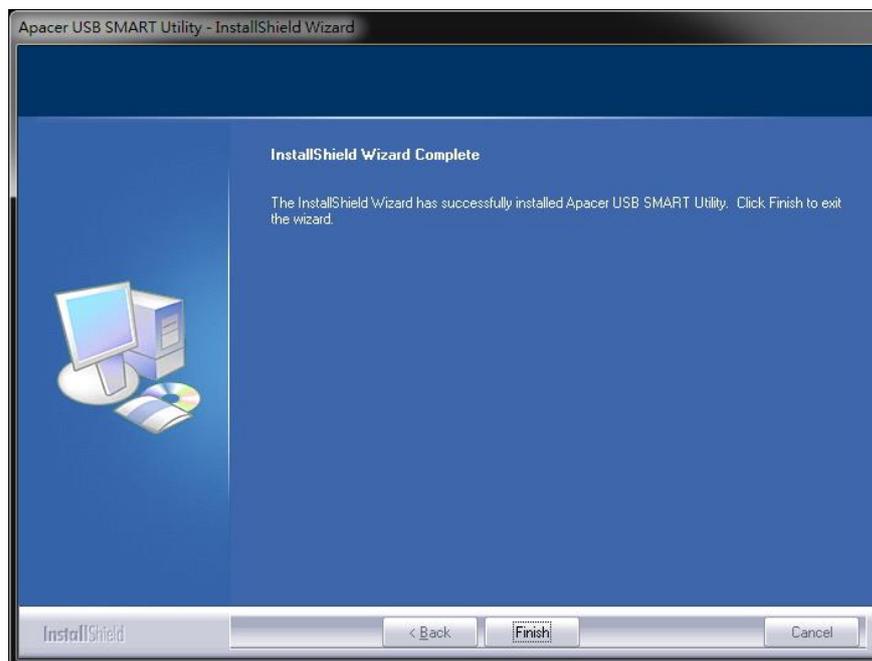
3. Once you have selected the destination, click **Install** to begin installation.



4. Please wait for a few seconds for the installation to complete.



5. When the screen shows “InstallShield Wizard Complete”, click **Finish**. The installation is successfully completed.

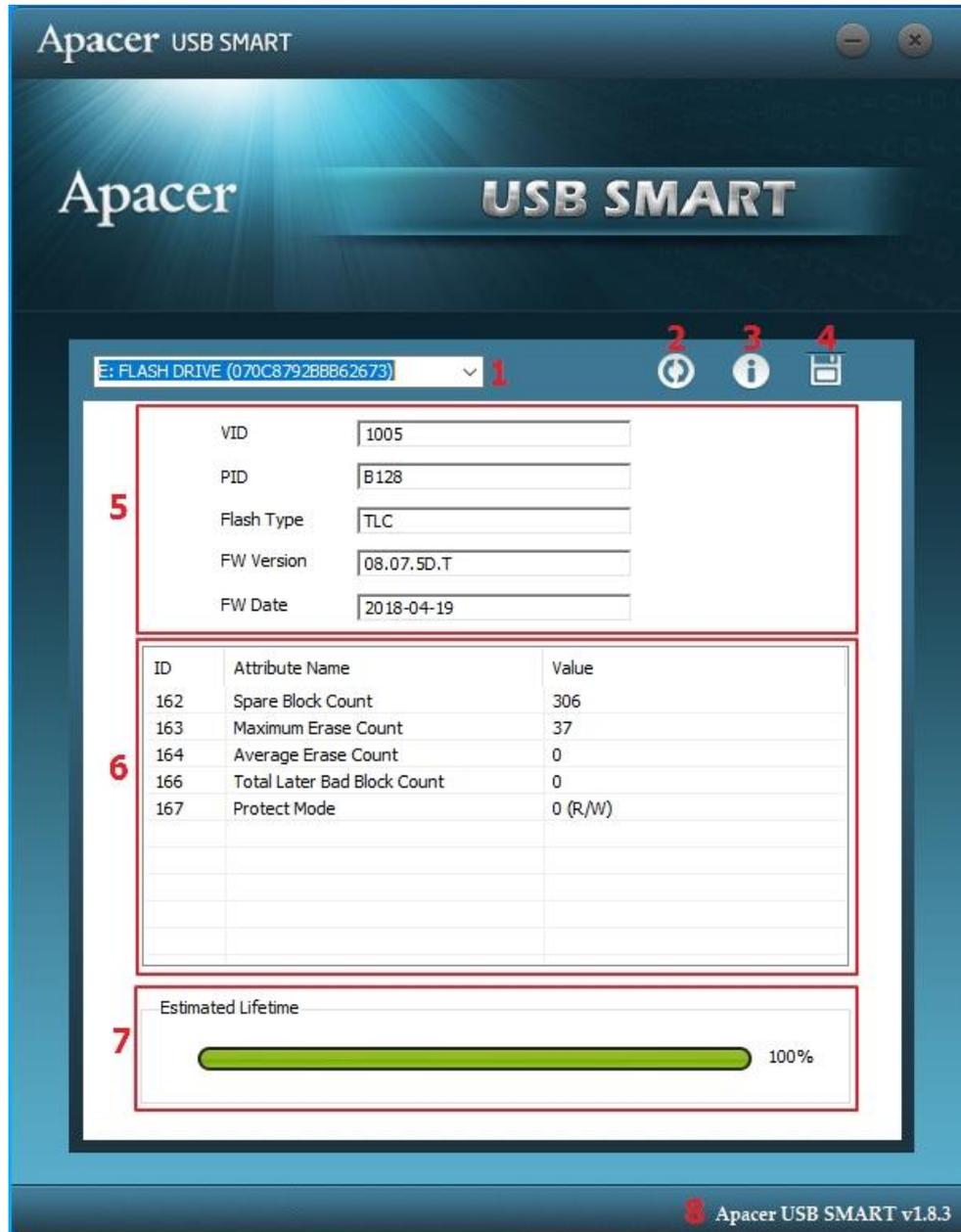


6. You may now insert Apacer USB flash drive to your host and the device will be detected by the utility automatically.

4. Get Started with Apacer USB SMART

4.1 Navigate Home Screen

The Apacer USB SMART interface consists of the following function icons and information display sections.



No.	Item	Description		
1.	Drop-down menu	Click to select any of the connected USB flash drive for monitoring.		
2.	Refresh	Click to refresh the device information.		
3.	Information	Click to view the version information of Apacer USB SMART.		
4.	Save	Click to export SMART logs of the selected USB flash drive.		
5.	USB Flash Drive Info	<table border="1"> <tr> <td>VID</td> <td>Shows the vendor ID.</td> </tr> </table>	VID	Shows the vendor ID.
VID	Shows the vendor ID.			

No.	Item	Description	
		PID	Shows the product ID.
		Flash Type	Displays flash type.
		FW Version	Displays current firmware version.
		FW Date	Displays firmware release date.
6.	S.M.A.R.T.	Displays SMART attribute information. See 4.2 View S.M.A.R.T. Attributes for more information.	
7.	Estimated Lifetime	Indicates the estimated lifetime of the selected USB flash drive.	
8.	Version	Displays the current version of Apacer USB SMART.	

4.2 View S.M.A.R.T. Attributes

This section allows you to view the SMART attribute table which provides a complete list of attribute information of installed USB cards.

ID	Attribute Name	Value
162	Spare Block Count	306
163	Maximum Erase Count	37
164	Average Erase Count	0
166	Total Later Bad Block Count	0
167	Protect Mode	0 (R/W)

ID	Attribute Name	Description
162	Spare Block Count	Displays the total number of spare blocks.
163	Maximum Erase Count	Displays the maximum number of erase counts in the device.
164	Average Erase Count	Displays the average number of erase counts in the device.
166	Total Later Bad Block Count	Displays the total number of later bad blocks.
167	Protect Mode	Displays a number that corresponds to certain device protect mode. (0: R/W mode; 1: Read Only mode)

4.3 Check Estimated Lifetime

The estimated lifetime is calculated based on the number of erase counts and P/E cycles.



Note: The formula for calculating estimated lifetime is: Current Avg. Erase Count / MLC guaranteed P/E cycle x 100%

Revision History

Revision	Date	Description	Remark
1.0	10/12/2020	Initial release	

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