



# Prolific USB to SATA Bridge Controller iSmart HDD Monitor User's Manual

For Windows 2000/XP/Vista/7

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### Disclaimer

## 1.0 Overview

This chapter provides an overview for the iSmart HDD Monitor tool program for Prolific external USB/eSATA hard disk drives.

### 1.1 About iSmart HDD Monitor

The iSmart HDD Monitor is a tool program that checks and monitors the reliability status of USB/eSATA hard disk drives to help prevent data loss due to drive failure.

The software uses S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology) monitoring system to detect and report on various hard disk health indicators, in the hope of anticipating failures due to mechanical wear that happens over time. This software can monitor hard disk parameters such as temperature, head-flying height and spin-up time to notify you when a critical condition occurs.

Prolific iSmart HDD Monitor provides the following features:

- ✓ Detects multiple USB/eSATA hard disk drives and provides detailed information of the disk drives; for example, model number, drive partitions, temperature, and so on.
- ✓ Displays current values of S.M.A.R.T. attributes, giving you extensive information about the health of your USB/eSATA hard drive.
- ✓ Provides a quick S.M.A.R.T self-test feature to test your USB/eSATA hard drive.
- ✓ Provides a taskbar system tray icon to display USB/eSATA hard disk drive information, USB speed mode, disk drive temperature, and disk free space capacity.

## **1.2 System Requirements**

The iSmart HDD Monitor works on a vast number of Windows platforms. Its easy-to-use intuitive design makes disk monitoring an easy task.

Hardware & Software Requirements:

- ✓ CPU: Pentium III 500MHz and higher or compatible
- ✓ RAM: 256 MB
- ✓ Disk space: 15 MB
- ✓ Formatted USB or eSATA Hard Drive
- ✓ Prolific iSmart HDD Monitor Utility Program (iSmart.exe)

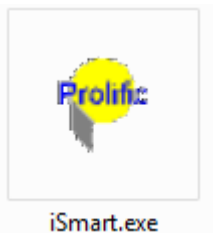
Supported Operating Systems:

- ✓ Windows 7 (32-bit & 64-bit)
- ✓ Windows Vista (32-bit & 64-bit)
- ✓ Windows XP SP2 or SP3 (32-bit & 64-bit)
- ✓ Windows 2000 SP4 Workstation

## **2.0 Using the iSmart HDD Monitor**

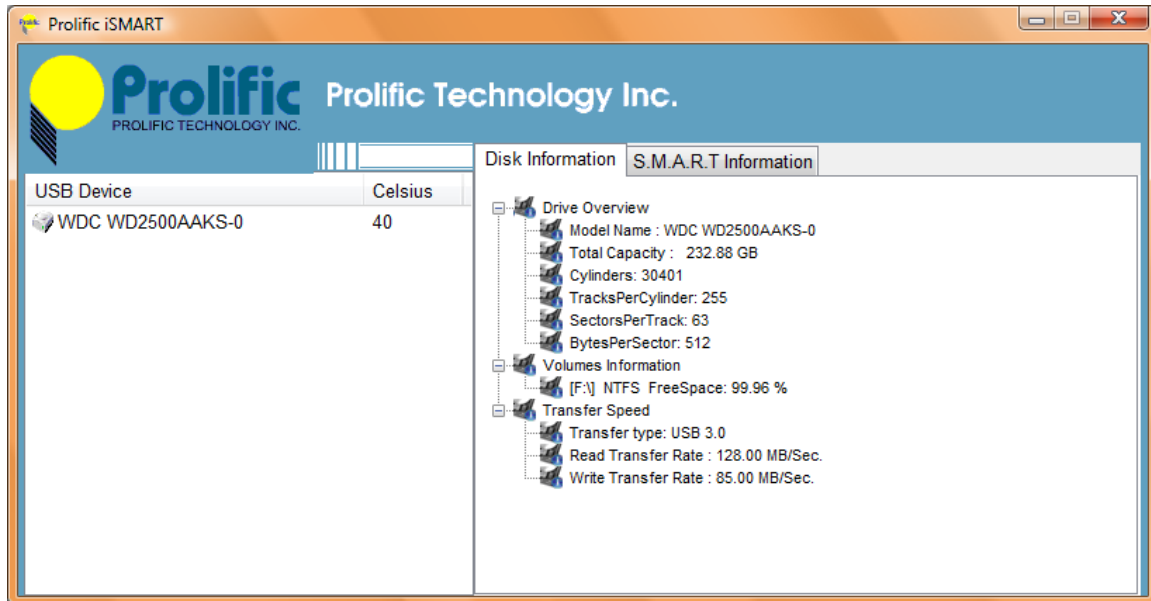
This chapter provides the operating guide on how to use the iSmart HDD Monitor program.

To run the iSmart HDD Monitor program, you simply plug in a formatted USB or eSATA hard drive to your computer's USB port or eSATA port and double-click the iSmart HDD Monitor program (iSmart.exe).



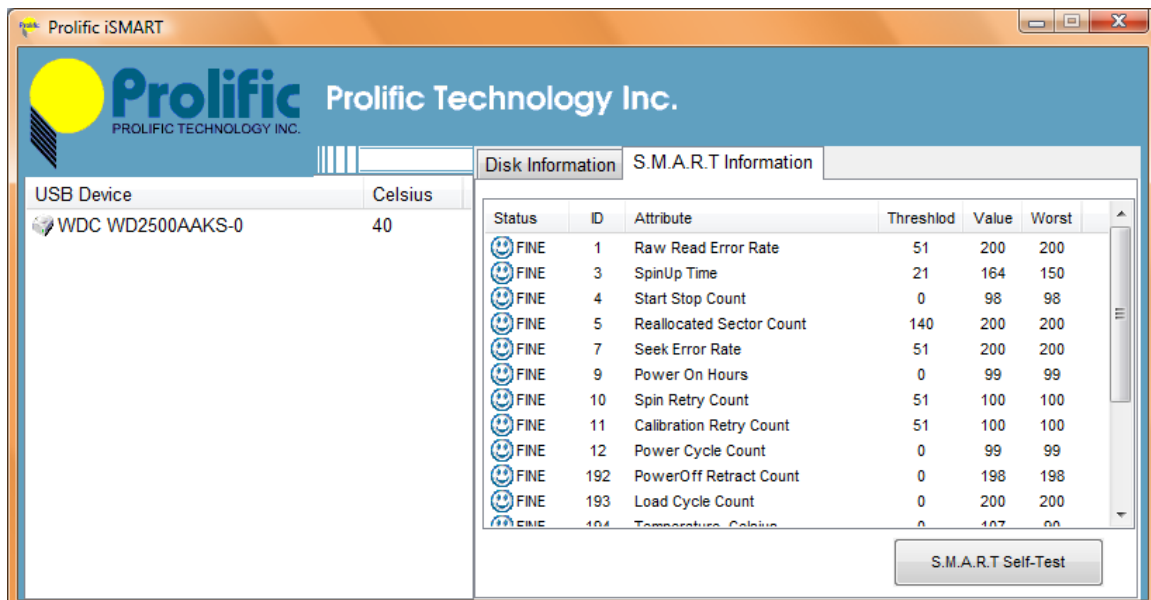
## 2.1 iSmart HDD Monitor Workspace

When you open iSmart HDD Monitor, a list of detected USB/eSATA HDD devices showing the drive model names and current temperature will appear on the left pane of the program window. Everytime you plug in another USB/eSATA hard drive, the left pane window will also update to show the list of detected devices.



On the right pane of the program window are two folder tabs: Disk Information and S.M.A.R.T Information. The Disk Information folder tab (shown on figure above) shows the Drive Overview (drive model name and disk drive characteristics), Volume Information (file system and free space capacity percentage), and Transfer Speed (transfer type and tested read/write disk transfer rate). NOTE: For eSATA drives, the Transfer type information will show as "SCSI DISK".

The S.M.A.R.T Information folder tab shows the status, ID, and various attributes for the selected hard disk.

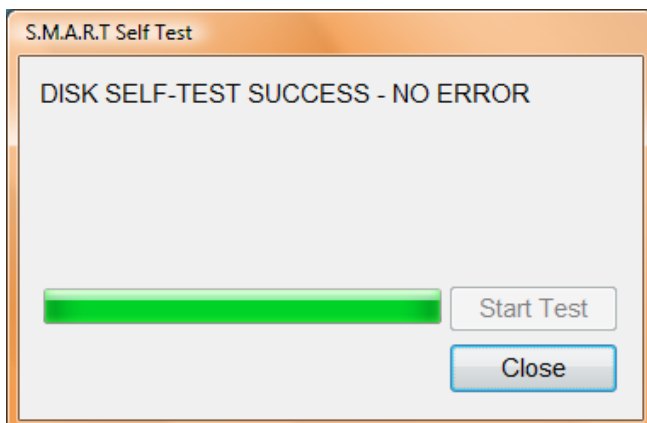
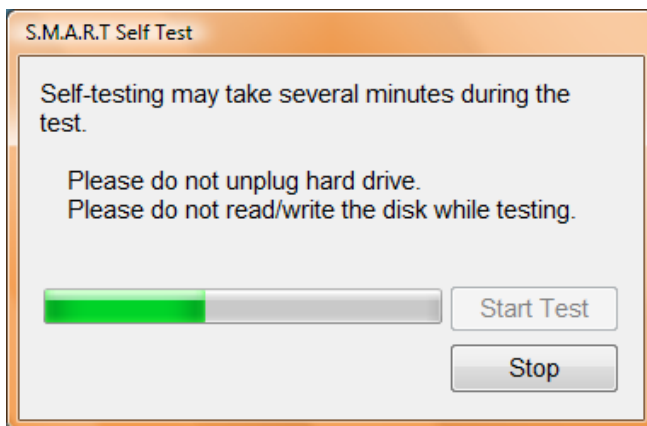
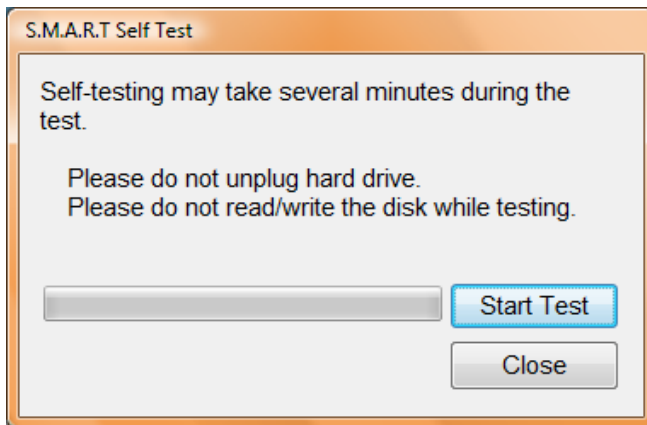


You can search for the list of SMART attributes meaning on the Internet such as the link below:

<http://en.wikipedia.org/wiki/S.M.A.R.T.>

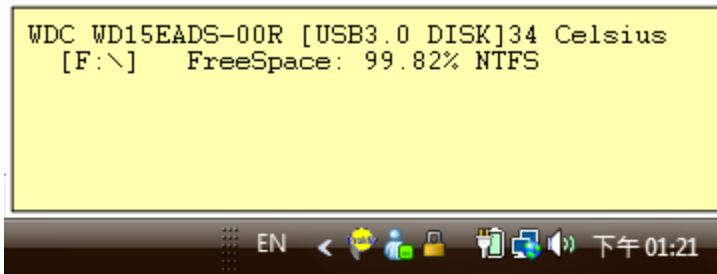
## **2.2 S.M.A.R.T Self-Test**

Below the SMART Information folder tab, you will also see the S.M.A.R.T Self-Test button. This test button is designed to intelligently gather and verify all of the S.M.A.R.T information contained on the drive. The test can determine with a high level of confidence that a drive is defect-free in a short amount of time.



## **2.3 Taskbar System Tray Icon Feature**

When you click minimize the iSMART HDD Monitor program, a taskbar icon will appear on the right-side of your desktop screen. Every time you move the mouse cursor to the taskbar icon, it will also show you the detected USB/eSATA hard drive information like drive model number, transfer speed type, drive temperature, and volume information. Double-click on the iSmart system tray icon to open the program window again.



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