



DriveObserver™ Software Version 2.02

Thank you very much for purchasing DriveTools™ SP Software. DriveObserver version 2.02 has been designed to provide real-time charts of drive performance. This first release lets you create new charts and save files that contain both chart set up and data.

Version 2.02 has the following limitations, which will be addressed in future releases:

1. **Printing.** DriveObserver V2.02 does not have a print command. To make printouts of your, you will need to use Screen Captures.
 - A. To use a Screen Capture, press Alt + Prnt Scrn or Prnt Scrn on your keyboard.
 - B. Go to Paint or another application and select Edit > Paste. (Paint is a standard accessory in Windows® operating systems. By default, Paint is typically located in the Windows Start menu under Start > Programs > Accessories > Paint.)
 - C. Use the Print function in Paint or other application.
2. **File Saving.** Saving a file with a new name and then attempting to open the original file will fail when the newly named file is still open. No data will be lost. You must close the newly named file before opening the original file.
3. **Bandwidth Management and Loss of Data.** Attempting to record/trend data faster than it can be obtained may result in missed data and/or DriveObserver locking up. This is typically caused by simultaneously recording data for multiple charts, where the sample period of all the charts exceeds the rate that data can be retrieved from the devices.

In the worst case, DriveObserver will lock up and be unable to save any of the data recorded. If DriveObserver locks up, it may be necessary to either restart the computer or re-logon to Windows to recover.

It is recommended to make sure the time required to read all traces on all charts does not exceed the available bandwidth or to only record/trend one chart at a time. Read the following example to determine how to calculate the time to read all traces. The sample time per trace information can be found on the DriveObserver sampling dialog.

For example, given the three charts below:

Name	Sample Period	Number of Traces	Trace Read Time	Chart Read Time	Used Bandwidth
Chart_1	500ms	4	50ms/trace	200ms	200/500 = 40%
Chart_2	100ms	1	50ms/trace	50ms	50/100 = 50%
Chart_3	500ms	2	50ms/trace	100ms	100/500 = 20%

If Chart_1 and Chart_2 recording is started, there is still 10% bandwidth unused and the recording will be successful. If however, Chart_3 recording is also started, the available bandwidth will be exceeded by 10% and there is a good possibility DriveObserver will lockup and/or miss reading data at the requested intervals. Any two of the above chart configurations could be run within the available bandwidth, but not all three at the same time.

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