

PRI 2007: Latest News



New DataMite III USB data logger has been released. Fig 1.

It's main features include:

- 3 RPM channels and 12 analog channels.
- 3 axis accelerometer.
- 3 internal weather sensors (barometer, humidity and temperature) and recirculating fan can be added.
- 4 internal K thermocouple channels can be added.
- USB communications cable for data recording, setting up and troubleshooting.
- 1 Gig (1000 meg) or optional 2 Gig SD memory card, provides hours of recording time and incredibly fast uploading to your computer for analysis.
- Lighted Start/Stop logging switch.
- GPS enabled for optional DT3-GPS allowing for GPS track mapping and lap timing. The GPS feature provides very accurate track maps, letting you compare the line taken on different laps. Fig 2.
- 50 or 100 Hz sampling rate.

Complete Packages are available for Drag Racing, Road Racing, Circle Track Racing and Dyno Testing, **all starting under \$1000.**

New DataMite Mini USB data logger to be released early in 2008. Fig 3. It communicates with computer via USB to record 2 RPM channels and 2 0-5 volt analog channels. Has built in options for doing load cell amplification and adding weather sensors and fan. This is an ideal package for a small dyno, inertia or absorber (water brake, eddy current, hydraulic), engine only or chassis dyno.

Other applications include retro-fitting a Power Tech™ spring tester for using our Spring Tester software, for improved accuracy and features, and as a stand alone weather station with wind speed and MPH with our Drag Racing Analyzes.

Blowby Sensor has been released for sale. This truly affordable blowby sensor will let you monitor engine ring sealing during your dyno runs. It has large inlets and outlets to provide for very low restriction, rugged all aluminum construction, is available in 3 different ranges for all sizes of engines, and is compatible with our DataMite Analyzer software and most other dyno systems. Fig 4.

Port Flow Analyzer v3.5 update was released in 2007 with several new enhancements like done in EA Pro v3.5. Also, it will support our **Automatic Valve Opener**. Fig 5. If your bench has a SuperFlow™ motor controller, you can just start the test and the software takes over, finding the tip of the valve and zeroing itself out, setting all lifts, recording data, returning the valve to closed and turning off the flow bench. Other enhancements include a New Test Wizard for easier testing for beginners, and larger, sizable display screen of readings from FlowCom™ or our Black Box II, better compatibility with SuperFlow's new USB Flowcom, and much more.

Engine Analyzer Pro v3.5 Update was released in early 2007. Major enhancements included:

- More accurate exhaust tuning simulation.
- Features to automatically email graphs, files and reports.
- Valve "Clash" simulation to see if valves are likely to hit each other for Hemi and 4 Valve engines.
- Greatly expanded Chain Calculations, to do dozens up to thousands of runs automatically.



Fig 1 DataMite III USB

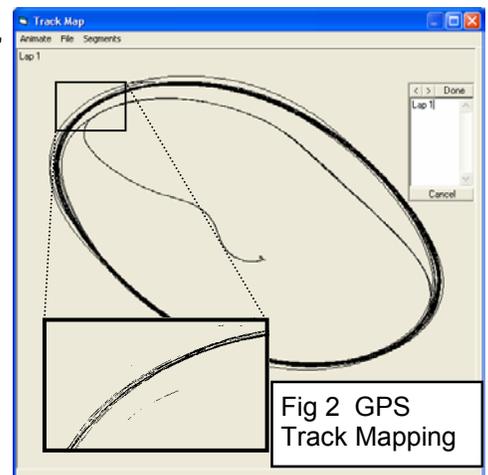


Fig 2 GPS Track Mapping

Fig 3 DataMite Mini USB

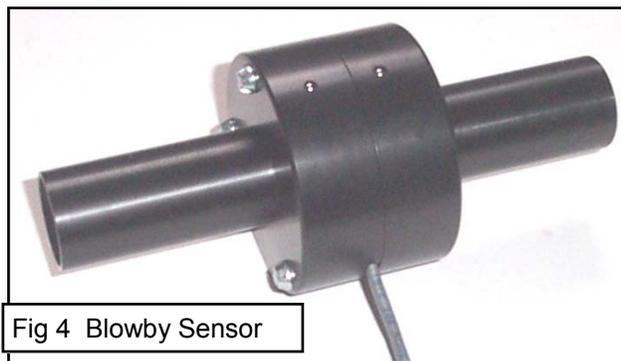


Fig 4 Blowby Sensor



Fig 5 Automatic Valve Opener

- New cam “ramp rating” input, to more closely match your exact cam profile.
 - New turbocharger inputs, backup and restore options, new calculation menus, and many other new features.
- This update is free to anyone who purchased the EA Pro since July 2006, \$60 for owners of EA Pro v3.3.

USB Spring Testers will be released in early 2008. The new USB electronics for both our Manual and Automatic (pneumatic) Spring Tester produces better accuracy and easier connectivity to new computers. Figs 6 & 7.

Cam Analyzer v3.8 is being shipped with Cam Test Stands now. Not all new features have been installed in v3.8 yet, but all owners of v3.8 will get free updates as they are released. New features already installed or to be released include:

- Can use our TDC Checking Bridge, to find dowel pin or keyway location.
- More built in Cam Design Layouts and valve train geometry for various engine designs.
- Being able to advance and retard cam timing after a cam has been measured on the Cam Test Stand.
- Built in Cam Timing for dowel pins and keyways. This lets you more easily use the TDC Checking Bridge to know how a cam will be timed once in the engine. Fig 9.
- New calculations like lobe asymmetry, ramp intensity, seating velocities, radius of curvature, etc.
- Easier integration to our Engine Analyzer Pro allowing it to read Cam Analyzer files more directly.
- One step backup and restore commands.
- Features to automatically email graphs, files and reports.



Fig 6 Automatic Spring Tester



Fig 7 Manual Spring Tester

For those NOT using the Cam Test Stand, there will be a Plus version “all on” with more enhancements for manually measuring cams, like being able to print cam cards (Fig 8).

DataMite Analyzer v3.7 is shipping with our new DataMite III USB and DataMite Mini USB. Figs 1 and 3. Some of it’s new features include:

- Metric inputs and outputs, and the ability to convert back and forth between Metric and English units.
- Better troubleshooting of data recording and data accuracy issues.
- Averaging of dyno runs together.
- One step back up and restore command of all files.
- Enhanced track mapping features to overlay various laps, zoom in, analyze, etc. Fig 2.
- Features to automatically email graphs, files and reports.

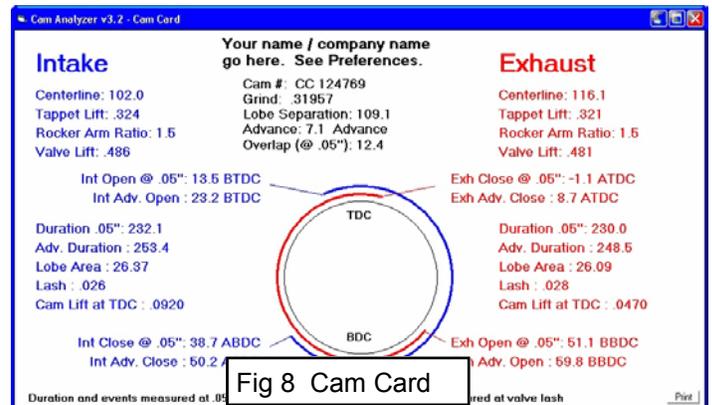


Fig 8 Cam Card

Other Minor Updates and enhancements have been released for most all our programs, from our smaller programs like Fuel Injector Calculator and Practice Tree to Engine Analyzer Pro v3.5 and Port Flow Analyzer v3.5. These are free to owners of these programs by just downloading the latest version from our website. Just type in your Registered Name as you did when you purchased your program and your same unlock code will unlock it.

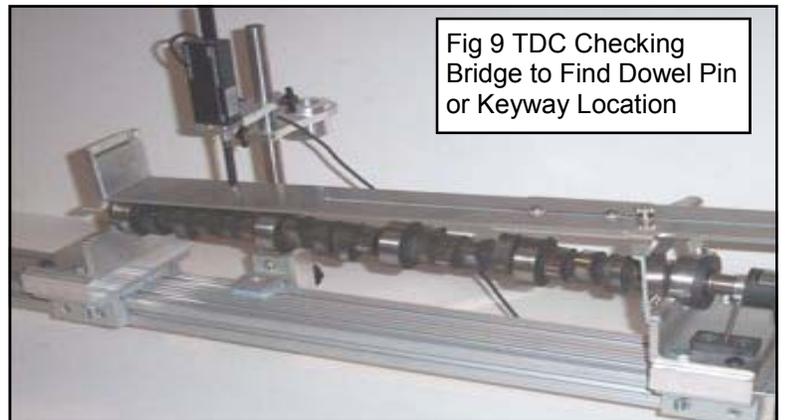


Fig 9 TDC Checking Bridge to Find Dowel Pin or Keyway Location

Improved support for our products is available. We’ve hired a new sales and website associate. We’ve added online shopping, a photo gallery for sharing photos and data files with other users, and a message board to our website. In addition, you can download narrated demo movie files showing how our products can be used. Just sit back and listen to learn how to use the various features of our high tech tools.

Windows Vista may require a couple of extra steps, but is compatible with all our Windows products.