ZETA
PERFORMANCE VEHICLE TECHNOLOGIES

TraqDaq Data Logging System

Technical Specifications:

- 12 ultra-accurate 12-bit analog channels specifically tailored for logging precise, high speed suspension sensors at up to 1000Hz. Provides accurate shock velocities and track replication files.
- Zeta offers a full complementary array of application specific sensors for all types of vehicles including many preconfigured packages. Sensor options available to measure most anything including displacement, temperature, pressure, forces, acceleration and inertial rates.
- 4 frequency inputs for wheel speed sensors.
- 2g internal 3-axis accelerometers (6g optional for high grip and high downforce applications).
- 5Hz GPS standard (20Hz GPS Optional for industry-topping accuracy and resolution).
- Super compact design measuring only 4.5"x6.5"x1".   Easily mounted anywhere and on any type of car.
- IP67 system rating – waterproof and dustproof for even the harshest of environments!
- Programmable, automatic logging triggering so the system only logs when you want it to.
- External dashboard and live lap time display options – Contact us for details!
- RS232 Serial port to expand input/output or communicate with a dash (2nd RS232 port optional).
- 2 Optional CAN-Bus ports capable of up to 1Mbit transmission and high speed logging with open CAN transmission and reception. This allows for up to 105 additional logging channels **- Never outgrow your data logger**!
- Optional HD GoPro synchronization allows for video synchronization to the data in the analysis software!
- 3x Deutsch Autosport connectors provide accuracy, toughness and durability in an unmatched compact size.
- 11-23v input works with high voltage systems.
- Custom application specific motorsports grade wiring harness.   Modular in design allows to run only the wiring needed and allows for simple system expansion after purchase. (No more large bundles of unused wires!)
- Optional 100Hz Live Speed upgrade for ultra-accurate, high speed data and higher resistance to brief GPS outages.

Software Information:

- 20 customizable pages allow you to save layouts so whatever you want to see is always a click away! We can provide a baseline template tailored to your package and application.
- Overlay multiple runs or define lap sectors and look at data for just one section.
- Optional synchronized video/GoPro playback allows you to watch video in the analysis software alongside the data or overlay data over the video.
- Quick charts to click through multiple variables versus time or speed or create advanced XY charts to overlay any variables.
- Powerful GPS analysis allows for looking at different lines using heat charts for speed.
- Overlay GPS trace over Google maps images of the track.
- Powerful math channels including calculus functions, logarithms and trigonometry for advanced analysis.
- Powerful filtering including time-based smoothing, bandpass, Butterworth and Chebyshev.
- Raw CAN processing and analysis with optional raw CAN reception for advanced applications.