Motorsport. Redefined.

WATER TEMP **105** °C
OIL TEMP **120** °C
OIL PRESS **5.0** BAR
FUEL PRESS **4.0** BAR
BATT VOLTS **13.2** V

4

+0.25 PREDICTED

SPEED MPH **136**

LAST 19 **1:15.57**   **1:15.11**   BEST 7 **1:15.36**

-.5   -.25   0   +.25   +.5
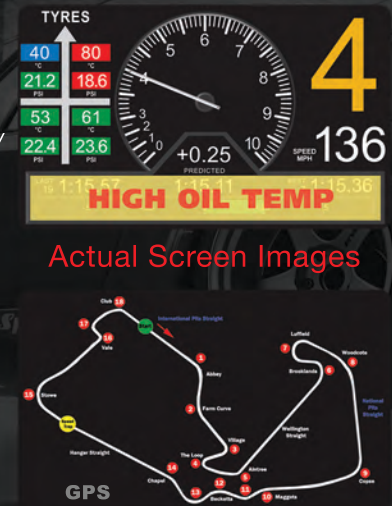
Highly Evolved.

The STACK LCD Motorsport Display is the next evolution of driver communcation and data acquisition. Designed specifically for the harshest of environments, the carbon composite housing is IP67 sealed against water and dust intrusion and will easily withstand 20 g of continuous vibration and 50 g of shock. Our 7" LCD panel ensures easy visibility under all circumstances with a retina level pixel densisty, unmatched brightness and an optically bonded lens for extreme glare suppression. The display layout is fully configurable to your individual specifications. The system will accomodate four programmable data bus channels (2 CAN and 2 serial) in conjunction with a nearly limitless amount of discrete analog sensors and its integrated 3 Axis Accelerometer. Data collection can occur at up to 1 kHz and the internal memory allows for practically infinite recording time. User defininable warnings take advantage of super bright, multi-coloured LEDs placed around the perimeter of the chassis to alert the driver to critical onscreen information. Quite simply, everything else suddenly seems a bit dated.

TYRES
40 °C   80 °C
21.2 PSI   18.6 PSI
53 °C   61 °C
22.4 PSI   23.6 PSI

HIGH OIL TEMP

Actual Screen Images

GPS

World Class Instrumentation

Motorsport. Redefined.

Display Features:
- 7.0" TFT LCD panel, 1000 nit brightness for unmatched daytime and nighttime visibility with 800 × 480 resolution. Onboard photo sensor for automatic brightness control.
- Dimensions - 211mm Wide × 132mm High × 35mm Deep.
- Carbon Composite Housing.
- Single 37 way autosport (AS) wiring loom connector for ease of installation and removal
- 12 analogue inputs for discrete sensors ideal for parameters not supported on the vehicle communication bus or ECU. Expansion modules available separately for additional inputs.
- DataPro Designer PC Setup utility
- Fully user configurable from display via integrated 4 button interface for at track changes. Optional external switch set can be mounted within driver reach for easy access.
- 16 configurable multi-colour LED indicator lights can be programmed for a wide variety of alarm and shift / gear change indication functions
- Initial release supports 6 layers or screens selected from user- configurable templates (screens/instrument cluster designs/layouts), additional configurability supporting team selected graphics, parameter / instrument type and location, and size will be made available with future firmware and PC software releases.
- Display features perfectly rendered virtual analog needles, value display bands, digital value indicators for vehicle parameters and configurable full colour text warning messages.
- Patented Predictive Lap Timing Display for Driver and Vehicle Development

Inputs:
- 4 pulse/digital or analogue inputs
- 8 analogue inputs (0-5V or 0-12V)
- 5 external switches / control outputs
- Internal 3-axis accelerometer +/-6g
- Internal battery voltage
- GPS Mapping and Lap Timing

Communications:
- 2 Configurable RS232 ports
- 2 Configurable CAN BUS ports
- 1 Ethernet port for PC comms:
  - (config. & firmware upgrades)
- 1 USB port: data exchange, config. copy/upload, & firmware updates.

Data Recording:
- 4 GB Onboard Datalogging Memory
- Sample rates up to 500 Hz (Select inputs 1000 Hz)
- Includes powerful DataPro Analysis Software

Environmental:
- IP67 sealed
- Operating temperature range: -7°C to +80°C
- Humidity: 0-100% RH
- Continuous vibration up to 20g, Shock up to 50g

Miscellaneous:
- Boot time / reset time to data screen: 2s
- Boot time for full graphic application: 8s
- Weight: 700g