McLaren ELECTRONIC SYSTEMS

ATLAS*Lite*

ATLAS*Lite* lets you obtain, display and analyse data from motorsport and automotive control systems. Familiar controls and extensive use of mouse menus and accelerator keys make it straightforward to use.
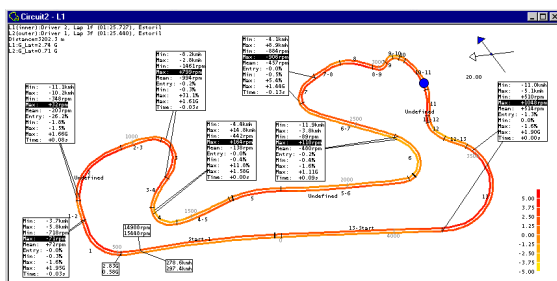
Workbook

- ATLAS*Lite* exploits a Workbook concept for managing and customising displays and analysis pages.
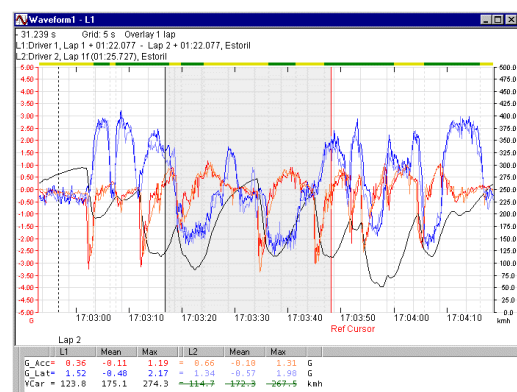
Graphical Timeline

- Shows: Out lap, Timed laps and In lap

- Highlights where data on view is in the session

- Mouse selectable lap or part of lap

- Time-linked displays

- Distance and Time modes

Displays

- **Circuit:** shows the location of the car on a map of the circuit. ATLAS*Lite* includes an easy to use facility to generate the circuit map from recorded data.

- **Waveform**: displays up to 32 parameters as waveforms in an oscilloscope format.

- On-screen controls for: parameter layout; lap offset adjustment; navigation and data selection
- Traces can be hidden or flashed
- Gradient and reference cursors
- Automatic and manual scrolling

- **Bar:** shows parameters as simple bar graphs

- **Numeric:** shows parameters as text

- **Scatter:** shows the relationship of two pairs of parameters in a cross plot

- You can **Zoom** in to magnify the view in the Waveform and Scatter displays

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Other displays allow you to analyse your data:

- **Histogram**: shows the distribution of a parameter against time
- **Summary**: shows statistics on selected parameters for the whole session arranged by lap, section or segment
- **FFT**: performs frequency analyses on the data. The results can be shown as Fast Fourier transforms, Transfer functions or Correlations

Parameters

ATLAS*Lite* handles each item of incoming data as a parameter.

- Parameters are selected in a browser or can be dragged from another display
- Parameter properties allow you to control how a parameter is displayed: they may be either local to a single display or global to the whole workbook.

Recording

ATLAS*Lite* includes controls to record data from data loggers directly using CAN or 100Mbps Ethernet.

Analysis

ATLAS*Lite* offers the following additional analysis features:

- **Functions**: (also known as Maths Channels) allow you to combine parameter values and perform calculations on them
- **Checks**: allow you to check the state of the car or engine automatically
- **Markers**: pinpoint the time when something interesting happens: they can be placed by hand or automatically by a check

Software Interfaces

ATLAS*Lite* can be used in conjunction with other Windows® applications: Text sessions may be imported for analysis and display

Licensing

ATLAS*Lite* is licensed by a hardware device. This can take the following forms:
- Parallel port dongle
- USB dongle
- Ethernet card