

Pilot



Physiological Performance Data On and Off the Track

bridging the gap between man and machine

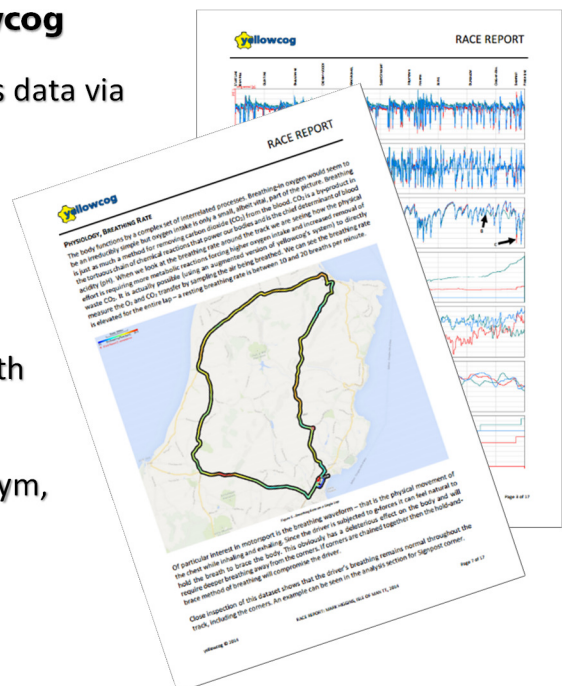
Motorsport Driver Monitoring from Yellowcog

Pilot wirelessly gathers driver vital signs and delivers data via the car ECU, logging and telemetry systems.

Physiological and environmental data is available live at the pit wall throughout the race and also for later review.

A Race Report gives driver, physio and team in-depth information about race performance.

Pilot delivers comparable information for gym, simulator and race.



Performance, Training and Safety

Pilot collects data from a range of sensors: from wireless chest-strap monitors to multi-parameter medical-grade monitoring devices.

The fusing of physiological and environmental data gives uniquely personalised feedback to drivers and teams.

Use *Pilot* on track, in the simulator or in the gym giving you full, comparative insight to race day performance.

Intuitive map displays show live driver exertion allowing any member of the team to understand driver load and pressure.

Real-time information about driver wellbeing enhances safety.

Pilot



Physiological Parameters

The Pilot system can be used to gather data on and off the track. Key parameters available are:

Heart rate, ECG, R-R (inter-beat) interval, Heart rate variability analysis, Respiration rate, Respiration waveform, Respiration variability, Photoplethysmogram (PPG), Blood Oxygen (SpO₂), Core Temperature, XYZ Acceleration, Blood Pressure and Eye-Tracking.

Use up to five devices simultaneously per *Pilot*, with each sensor able to provide many individual parameters.

For team use, each driver has their own setup stored in the *Pilot* allowing for seamless transitions on driver change. Once configured no other user intervention is required.

Technical specifications:

The Pilot is a small matchbox-sized device that can be conveniently located anywhere in the car.

Each Pilot talks to one or more Bluetooth sensors and concentrates the information into a single data stream.

Data can be transmitted to in-car or simulator systems using RS-232, CAN Bus or analogue.

Multiple units can be combined within the same system and each also integrates with the extended range of yellowcog devices giving access to hundreds of different sensors.

Dimensions:	52x36x17mm
Weight:	30 grams
Required Power:	5V to 24V
Consumption:	500 mWatt
RS-232 Output:	EIA/TIA-232E Compliant
CAN Output:	2.0B, ISO 11898 Compatible
Analogue Output:	16bit, 250Hz, 8 Channels

