

VBOX SPORT



VBOX Sport is a water-resistant, battery powered, compact GNSS data logger designed primarily to measure vehicle performance or lap-times.

VBOX Sport can be used as a stand-alone logger or connected to an iOS device via Bluetooth to see results in real time using free apps supplied by RaceLogic.

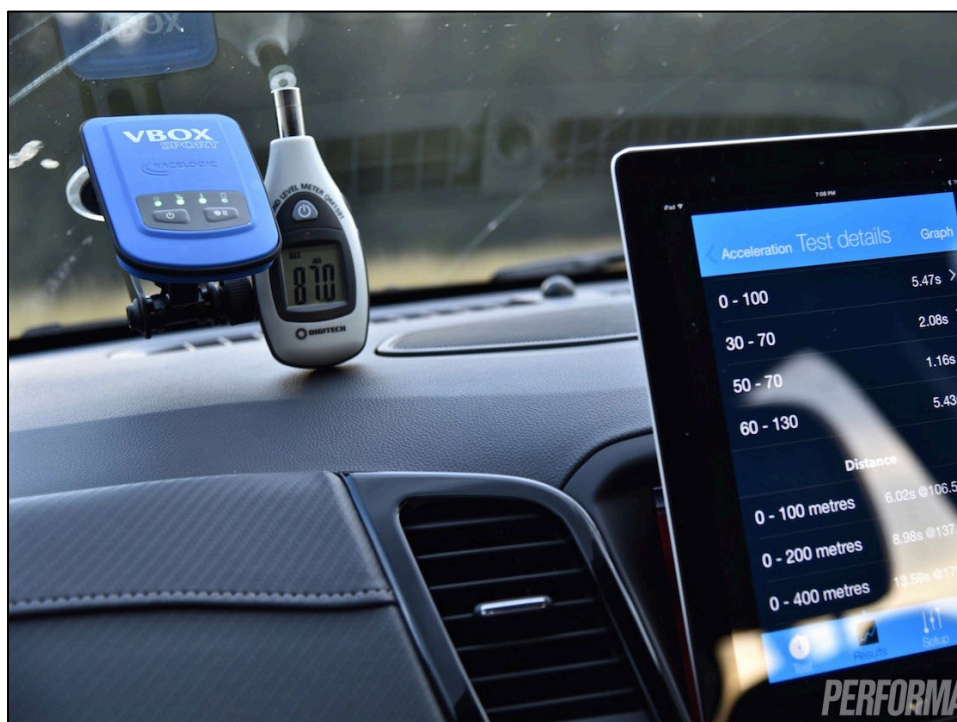
The unit is very light weight and rugged, with an option of using an external antenna, which makes it versatile for a wide range of applications.

VBOX Sport comes with a 4-prong mounting plate which will fit a large range of standard mounting accessories.



Features

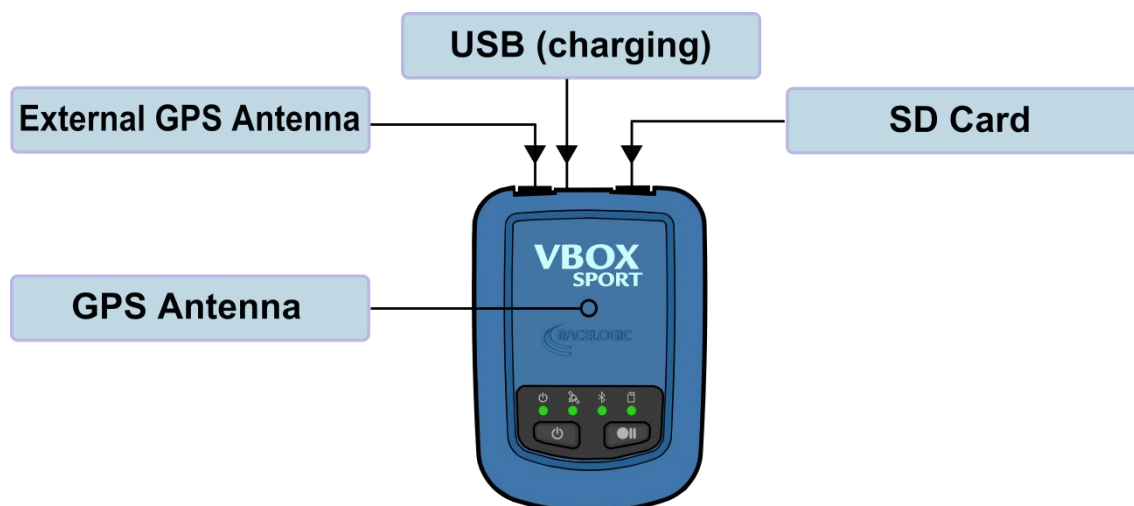
- Compact 25 Hz data logger
- Bluetooth interface to smart phone or tablet
- SD card logging
- 6 hours+ internal rechargeable battery
- Internal or external GNSS antenna
- Robust, water-resistant, lightweight enclosure
- 4 Prong mounting system
- Circuit Tools analysis software
- Free Performance Test & Lap Timing iPhone Apps available from Apple App Store





Inputs and Outputs

USB Battery charging/power only	SD Card 8 GB card supplied with device
External GNSS Antenna (optional) GNSS low profile antenna with RG-174 and MCX male connector (2 m cable). Order number: RLACS284	



Environmental and Physical

Input	+5 Volts only		
Power	2.5 W max (charging)		
Operating temperature	-20°C to +55°C - 0°C to +45°C (whilst charging battery – charger will shut down outside this range)		
IP rating	IP65 (with connector bungs fitted)		
Size	104.5 x 72.8 x 25.1 mm		
Weight	130 g		
Storage temperature	-20°C to +60°C (max limits)		



GPS Specifications

Velocity		Distance	
Accuracy	0.1 km/h	Accuracy	0.05% (<50 cm per km)
Units	km/h or mph	Units	Metres / Feet
Update rate	25 Hz	Update rate	25 Hz
Resolution	0.01 km/h	Resolution	1 cm

Absolute Positioning		Time	
Accuracy	±2 m 95% CEP*	Accuracy	0.01 s
Resolution	1 cm	Resolution	0.01 s

Acceleration		Heading	
Accuracy	1%	Accuracy	0.3°
Resolution	0.01 g	Resolution	0.01°
Maximum	4 g		

Definitions:

* CEP = Circle of Error Probable. 95% CEP means 95% of the time the position readings will fall within a circle of the stated radius.

Recording Options
Record only when moving (default); Record start/stop button.
SD Card Memory Usage
8.7 Mb/hour whilst logging.

Software

Apple software (available from the Apple App Store)	Windows software
Racelogic Performance Test App	Circuit Tools Data analysis software
Racelogic Laptimer App	VBOX Test Suite analysis software
Racelogic iOS Circuit Tools App	

Package Contents

Product Code	Description
VBS01-V3	VBOX Sport 25 Hz
RLACS313	8 GB SD Card
RLCAB117	USB A- Micro B Lead, 1.8 m
RLACS184	Cigar Plug USB Adaptor
RLACS185	4-Prong Mounting Plate

Optional: RLACS284 - External GNSS Antenna, RLACS331 – Suction mount, RLACS187 – Bar Mount