

VBOX Pit Lane Timer

(RLVBPIT01)



VBOX Pit Lane Timer is a 10 Hz GPS data logger and pit lane timer display in one. It provides instant driver feedback, helping you to optimise your time in the pit box and to avoid pit stop penalties.

In addition to displaying your stint time and speed in the pit lane, VBOX Pit Lane Timer uses high brightness colour LEDs to give an indication of when you need to speed up, slow down or leave the pit box.

Information such as speed, time, and position can be stored on an SD card for the user to examine later using the Circuit Tools analysis software.



Display Modes

VBOX Pit Lane Timer has different display modes depending where you are on the track.

32'07.7

Stint Time

When you are out on the track, the Pit Lane Timer will show your time from pit stop to pit stop.

23.5 km/h

Live Speed

When you enter the pit lane, the Pit Lane Timer will show your live speed value.

0'03.5

Countdown Time

When you come to a stop in your pit box, the Pit Lane Timer then displays a countdown to when you should leave your pit box.

Features

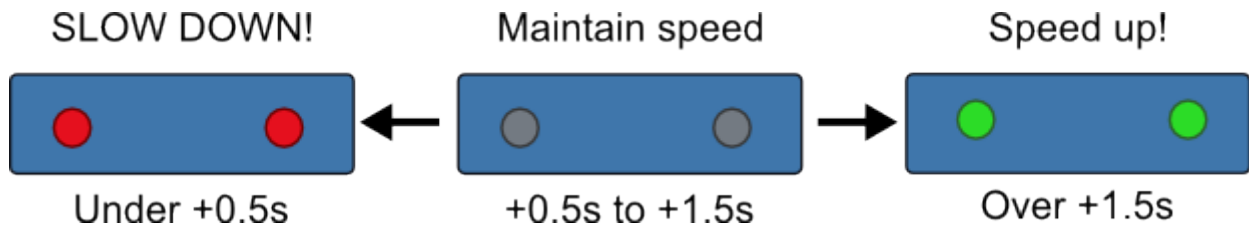
- Helps to avoid pit stop penalties
- Minimises the time spent in the pits
- Prompts when to leave the pit box, and warns if you are likely to cross the line too early
- Easy operation
- Motorsport Standard Lemo connectors
- Low power consumption: 1.5 W
- Multiple Mounting methods including standard 1/4-20 UNC threaded hole

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LED Modes

After the counter has reached 0.00 and the vehicle moves out of the pit box, the LED's will either be OFF, GREEN or RED.



When the LEDs are RED, the Pit Lane Timer will also sound a continuous beep.

Connectors

Power Connector			
Pin	I/O	Function	
1	I	Power +	
2	I	Ground	
Chassis	I	Ground	

RS232 / CAN Connector			
Pin	I/O	Function	
1	O	RS232 TX	
2	I	RS232 TX	
3	I/O	CAN High	
4	I/O	CAN Low	
5	I	Power	

GPS Antenna Connector			
Pin	I/O	Function	
1	I	Signal	
Chassis	I	Ground	

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General Specification

Environmental and Physical	
Unit Connection	1x Lemo 5w socket and 1 x Lemo 2w socket
IP Rating	IP31 Rating
Operating Temp	-20 to +70°C
Power	1.5 W
Input Voltage	7 – 30 V DC
Dimensions	120 x 50 x 24.5 mm (exc. connectors)
Weight	178 g (exc. cable)

GPS Specification

Velocity		Position	
Accuracy	0.1 km/h	2D Position	3 m 95% CEP *
Units	Km/h or MPH	Height	±5 m
Update rate	10 Hz		
Maximum velocity	1800 km/h		
Minimum velocity	0.1 km/h		
Resolution	0.01 km/h		

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

Acceleration		Heading	
Accuracy	0.5%	Resolution	0.01°
Maximum	4 G	Accuracy	±0.1°
Resolution	0.01 g		

Support	
Hardware	One Year hardware warranty
Software	Lifetime Support Contract: Valid for a minimum of 5 years from the date of purchase and limited to the original purchaser. Contract includes telephone/ email technical support provided by local VBOX Distributor and firmware/ software upgrades (where applicable).

Software

Windows software
Circuit Tools: Data analysis software

Package Contents

	Product Code
VBOX Pit Lane Timer unit	VBLAP01-V2
External GPS/GLONASS Low Profile Antenna	RLACS284
Lightweight Suction Mount	RLACS287
2-Way LEMO to 12 V Cigar Lighter Power Cable (2 m)	RLCAB010LE
8 GB SD Ultima Pro Memory Card	RLACS313