

Cost-effective GPS solutions to reduce tyre, fuel and maintenance costs for mining vehicles.

VBOX MINING Solutions help users on mine sites around the world to measure precise vehicle movements and report on site operations. This helps solve issues with: low tyre life, low component life, underutilised equipment, driver behaviour and identifying root causes during incident investigations.

VBOX VIDEO HD2

VBOX is a high accuracy GPS data logger that can be fitted to any vehicle. The GPS data is synchronised with video footage captured on site using a **VBOX VIDEO HD2**.

With a ring buffer, the **VBOX VIDEO HD2** will always keep the most recent GPS data and video footage available for analysis – like a "black box" flight recorder.





VIDEO VBOX PRO

RACELOGIC offers a **VIDEO VBOX PRO** upgraded with heavy duty protection (IP67) designed for mining users. The Rugged **VIDEO VBOX PRO** includes a modified Pelican case capable of housing:

- VIDEO VBOX PRO
- Four heavy duty cameras with stainless steel enclosures
- Inertial Measurement Unit
- Camera extension cables and accessories





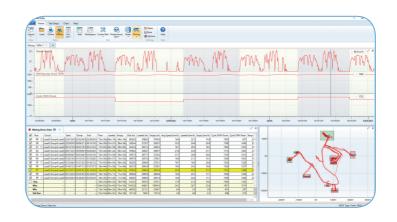
VBOX Process

- Fit **VBOX** to any vehicle to record video footage and high accuracy GPS data
- 2. Analyse the latest **VBOX** data when an event of interest occurs, such as a significant change in operations or an incident that requires investigation
- Realise benefits by reducing maintenance and operational costs whilst improving safety and productivity

VBOX Software for Mining Users

Generate cycle results with simple inputs

- Input load/dump locations and vehicle data
- Automatically calculate cycle TKPH for each cycle
- View loaded/unloaded performance for each cycle



TKPH Report

Summarise and share results by generating a TKPH report

- Measure operational site TKPH against rated tyre TKPH
- TKPH corrections applied from tyre manufacturer specifications
- Compare cycle TKPH between multiple circuits

				ry by Circuit				
Circuit	Average Round Trip Distance (km)	Average Cycle Time (hh:mm:ss)	Total Time on Circuit (hh:mm:ss)	Average Cycle Speed (km/h)	Maximum Average Cycle Speed (km/h)	Average Cycle TKPH	Maximum Cycle TKPH	Number of Cycles
Load1-Dump2-Load1	8.47	00:31:32	07:53:08	18.39	23.2	1510	1928	15
Load1-Dump2-Load2	8	02:04:02	02:04:02	6.39	6.39	408	408	
Load2-Dump3-Load3	16.97	02:06:10	02:06:10	10.5	10.5	1003	1003	
Load2-Dump6-Load2	5.22	00:26:14	00:52:29	12.9	12.93	1020	1061	
Load3-Dump3-Load3	5.41	00:22:11	19:58:20	18.24	23.64	1444	1872	5
Load3-Dump4-Load3	6.06	00:22:42	07:56:45	19.19	24.21	1553	1988	2
Load3-Dump5-Load3	6.05	00:34:48	02:19:12	14.78	19.55	1123	1519	
Summary by Inc	outs	^^ ^^	40.40.00	** 02	24.21	1441	1988	9
Shift Start	Times	Shi	ift Temperature	s				
Day Shift	07:00		Shift	88 00 (°C)				

		Summary by Inputs			
Vehicle		Shift Start Tim	Shift Temperatures		
Vehicle ID	RD001	Day Shift	07:00 AM	Day Shift	38.00 (°C)
Vehicle Specification	Liebherr T282C	Night Shift	07:00 PM	Night Shift	20.00 (°C)
Vehicle Type	Haul Truck	Time Zone	E. Australia		
Fleet	Pre Strip		Standard Time		
Weight/Load					
Empty Vehicle Weight	240 tonnes	Empty Weight Distribution		Front - 50% Rear - 50%	
Payload	360 tonnes	Loaded Weight Distribution		Front - 34% Rear - 66%	
umber of wheels Front - 2 Rear - 4		Average Over		4.00h	

