

# Application Note: Driver Monitoring

Vehicle safety continues to evolve with factory installed safety monitoring devices. New GPS road safety applications are now focused on the driver as well as the vehicle. This is done in order to assess the behavior of the drivers in different driving environments.

Excessive speeding, quick accelerations and hard braking affect vehicle performance, increase fuel consumption, and increase maintenance costs to keep the vehicle on the road.

Road safety is also an issue with aggressive driving behaviour, so proactive driver monitoring allows for the prevention of unintentional speeding tickets, or the hundreds or potentially thousands of dollars in hidden costs resulting from increased insurance premiums, license fees, or the costs of human suffering from injuries and even death.

The Otto-Driving Companion™ road safety device incorporates a trip data logging functionality called OttoLog™. The date, time, location, speed of the vehicle, and posted speed limits are stored on the device for later retrieval.

# OttoLog



The data files contain the trip information that can be exported as a summary report, or individual trip reports that detail the driving behaviour including speeding exceptions, aggressive acceleration and deceleration, and estimated trip fuel costs.

The data files can also be exported to GoogleEarth® 3D or to Microsoft® Streets and Trips™ mapping application software.

## Driver-Monitoring Examples

- ✓ Leased vehicle driver monitoring
- ✓ Commercial delivery driving behaviour
- ✓ Novice driver monitoring
- ✓ Public-servant driving behaviour
- ✓ Environmental impact of driving behaviour
- ✓ Car rental driving behaviour

OttoLog		Report Parameters		
Speeding Exceptions		Log Start:	3/8/2007 6:46:24 PM	
		Log End:	3/9/2007 12:41:12 PM	
		Otto Serial Number:	01005	
		Logfile Name:	Otto1005-march9-07.ipi	
		Velocity Tolerance:	10 %	
		Timezone:	(GMT-05:00)	
Trip #	Date/Time	Speed Limit	Max Speed	Duration (h:m:s)
1	3/8/2007 6:48:27 PM	50 km/h	57.04 km/h	00:00:03
1	3/8/2007 6:52:21 PM	50 km/h	58.89 km/h	00:00:05
1	3/8/2007 6:58:53 PM	50 km/h	57.41 km/h	00:00:06
1	3/8/2007 6:59:29 PM	50 km/h	62.97 km/h	00:00:17
1	3/8/2007 7:00:07 PM	50 km/h	68.15 km/h	00:00:21
1	3/8/2007 7:00:52 PM	50 km/h	56.67 km/h	00:00:04
2	3/8/2007 9:38:00 PM	60 km/h	70.38 km/h	00:00:24
2	3/8/2007 9:52:37 PM	70 km/h	82.97 km/h	00:00:02
2	3/8/2007 9:52:39 PM	50 km/h	78.90 km/h	00:00:09
2	3/8/2007 9:53:13 PM	50 km/h	59.63 km/h	00:00:21
2	3/8/2007 10:01:05 PM	50 km/h	55.93 km/h	00:00:04
3	3/9/2007 8:47:30 AM	60 km/h	68.89 km/h	00:00:04
3	3/9/2007 8:47:36 AM	60 km/h	73.34 km/h	00:00:14

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