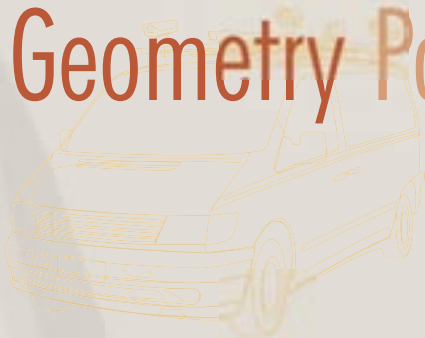




GIPSI-Trac Geometry Package



Hawkeye 2000 series
professional survey solutions

Overview

The 2000 series Gipsi-Trac Geometry Package is a Hawkeye compatible system using dead reckoning sensors and a GPS receiver to collect road geometry information for continuous 3D highway maps.

The package includes the Gipsi-Trac microprocessor based system which records and combines inertial data from gyroscopes, accelerometers and a distance sensor with GPS position.

The system produces a survey database of WGS84 and road geometry data which can be used in conjunction with the other Hawkeye systems and exported to PMS and other databases. The data is typically processed and analysed with the Hawkeye Processing Toolkit.

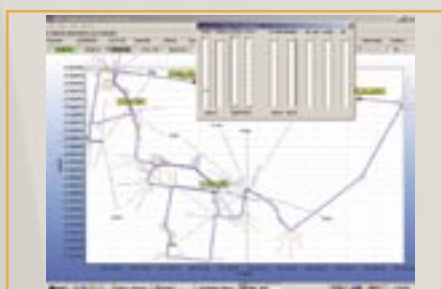
The package comes with the Gipsi-Trac system, cables and acquisition software.

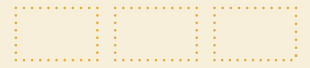
Features and Benefits

- Accurate and cost effective
- Operates in all locations
e.g. Tunnels, under bridges, highly vegetated or mountainous regions where GPS may not be reliable.
- Integrated GPS receiver and dead reckoning sensors

Applications

- Provides road geometry and position for complex 3D highway mapping
- Estimated Design speed and travel times
- For use with the 2000 series packages





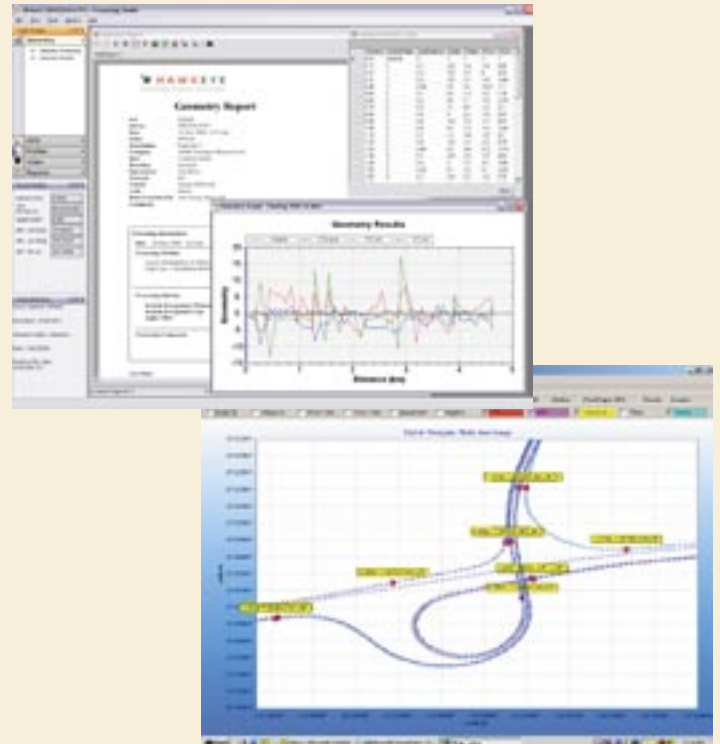
GIPSI-Trac Geometry Package

Specification Summary

Condition	Requirement
Outputs	WGS84 position, odometer, grade, vertical and horizontal curvature, cross-slope, advisory speed
Operating Speed	0 to 120 km/h
Update rate	1 Hz
Accuracy	Grade: 0.2% Cross Slope: 0.2% Horizontal curvature: 0.1 radian/km Vertical curvature: 0.1 radian/km
Odometer Resolution	10 mm
Mapping Accuracy	Typically 2 to 10m (97% CL) after processing

Components

- Integrated Gipsi-Trac module
- Mounting attachments
- GIPSI Acquire software



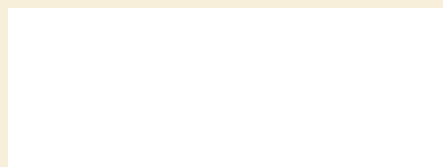
Hawkeye 2000 series
professional survey solutions

Related Products

Hawkeye 2000: Acquisition, Imaging, GPS and Profiling Packages
Hawkeye 1000 series: Portable Survey Solutions

Note: ARRB Group Ltd reserves the right to change these specifications without notice. Whilst every care is taken in preparing these specifications, ARRB recognises that there may be classes of surface and applications for which the device has not been tested, and for which the device may not meet the stated specifications.

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