

Road Safety Platform

About ARRB:

ARRB Group Ltd (ARRB) provides research, consulting and information services to the road and transport industry. ARRB applies research outcomes to develop equipment that collects road and traffic information and software that assists with decision making across road networks. ARRB is the leading provider of road research and best practice workshops in Australia.

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MATERIALS, PAVEMENT & CONCRETE DESIGN & TESTING | TRANSPORT POLICY, OPERATIONS & ECONOMICS |
INFRASTRUCTURE ASSET MANAGEMENT | EQUIPMENT MANUFACTURE & DATA COLLECTION SERVICES |
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Road Safety Platform

collection and evaluation of key road features to assess road safety

The Road Safety Platform (RSP) is a sophisticated video acquisition and road geometry system specifically configured to enable safety evaluation of road networks.

The system utilises the latest in digital camera and road geometry data collection to enable engineering assessment of route safety.

The 3 or 4 camera Hawkeye 2000 Digital Imaging System produces high-resolution video frames which can be used to measure lane and shoulder widths, position road and roadside assets and evaluate site distances.

The on-board Gipsi-Trac geometry system uses gyroscopes, accelerometers and a distance sensor with GPS or DGPS position to capture slope, cross-fall, radius and curvature.

The outputs from the combined systems are then used to identify high risk locations on the road network.

The office based viewing software, Hawkeye Processing Toolkit, allows the survey database to be reviewed, edited and processed efficiently.

Applications

- Road safety engineering assessment
- Visual identification of roadside features and assets
- Estimate speed and travel times
- Assess advisory signage for road users

Key road features collected

- Separation of opposing traffic flow
- Lane, shoulder and clear zone width
- Overtaking opportunities
- Street lighting
- Sight distance
- Horizontal and vertical alignment
- Super-elevation
- Cross slope



Features

- Safe and efficient data collection for both urban and highway surveys
- High resolution, full colour digital images referenced against chainage and permanently stored for future reference
- Less than 1m image position error (with DMI distance sensor)
- Readily interfaces with common GIS packages
- Highway speed operation, reducing survey time

