

All-Terrain Survey Vehicle

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 |
SAFE SYSTEMS | ROAD SAFETY | TRAFFIC ENGINEERING | HEAVY VEHICLE TESTING & SIMULATION | PARKING |
LAND TRANSPORT RESOURCES & INFORMATION | KNOWLEDGE TRANSFER & CAPACITY BUILDING |

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All-Terrain Survey Vehicle

the ultimate survey vehicle for less accessible areas

The All-Terrain Survey Vehicle (ATSV) is a rugged and efficient system for data collection in areas where a normal sized vehicle cannot access.



Whether the project is a small bike track survey, or a larger scale footpath network survey, the size and off-road capabilities of the vehicle allow for quality, automated and safe data collection.

Utilising state-of-the-art technologies, the ATSV can accommodate project level versions of any of the Hawkeye system modules such as the digital laser profiling, the digital imaging system for assets and/or pavements and the road geometry system (Gipsi-Trac).

Operators can monitor equipment operation and module outputs in real-time through Hawkeye Onlooker Live software. The associated Hawkeye Processing Toolkit software ensures that the survey database can be reviewed, edited and processed quickly and efficiently by office-based operators.

The data collected from each module can then be compared against other results and exported to most pavement and asset management systems.

Applications

- A varied range of surface condition assessments:
 - Footpaths
 - Laneways
 - Forest & logging tracks
 - Single or multi-level car parks
- Asset location and condition assessment
- Safety evaluations

Available outputs

- Roughness
- Longitudinal profile
- Transverse profile
- Rutting
- Macrotexture
- Digital Imagery
- Distance



Features

- Automated, simultaneous, linked data collection using the Hawkeye 2000 range
- Safe and efficient data collection on roads and shared pathways
- Digital images linked to chainage or the optional GPS receiver
- Inertially-corrected GPS for covered car parks, tunnels and built up areas
- Digital Camera (progressive scan) with optical zoom capability
- Less than 1m image position error (with DMI distance sensor)

