

Hawkeye 1000 DUO

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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Hawkeye 1000 DUO

The Hawkeye 1000 DUO System. Asset and road condition in a portable unit.

ARRB Group has developed the first completely portable road and asset data collection system, consisting of a precision laser profiler, combined with a high resolution camera.

The Hawkeye 1000 DUO is perfect for project level data collection demands, as well as larger scale network surveys.

The system, equipped with ARRB's newly developed lasers, is capable of collecting longitudinal profile, roughness and macro-texture (both MPD and SMTD), whilst providing fully linked video images. This is achieved using ARRB's unique Heartbeat module to precisely link the data to distance/chainage and GPS position.

Used in conjunction with the office-based Hawkeye Processing Toolkit, operators can produce a wide range of reports to review network condition and performance. This information can then be simply exported to other applications such as HDM-4.

Applications

- Pavement condition assessment
- Identification of roadside features and assets
- Infrastructure condition assessments
- Road safety assessment
- Pavement construction quality control

Available outputs

- Roughness (IRI, Ride Number, NAASRA)
- Longitudinal profile
- Macrotexture (MPD or SMTD)
- Digital imagery
- GPS location / Distance
- Shapefiles

Compliance with International standards

- ASTM E950
- AASHTO PP37
- ASTM E1845
- ISO 13473



Features

- World Bank Class 1 profiler with a choice of laser combinations to suit all budgets
- Offers both texture and roughness data outputs in a single unit
- Uses a full colour, high resolution camera with suction mounting bracket
- Easily installed on a variety of vehicles without special tools or personnel
- Ideal for remote survey requirements and short-term vehicle installations
- Data is linked to chainage and a GPS receiver (An optional DGPS module is also available)
- Operational at highway speeds
- Integrated images, spatial data and laser profiler data
- Playback features such as zooming, width measurement and asset location

