

About AAM

AAM is a leading professional services company renowned for its work in the mining and engineering sectors for the last 50 years. Our reputation is based on delivery of large projects in remote locations requiring accurate products often in situations presenting significant technical challenges.

Our teams in Australia, New Zealand, Malaysia and South Africa introduce leading innovations to the market such as LiDAR, High Resolution Satellite Imagery, Terrestrial Laser Scanning, 360° Spherical Imaging and SiteSee™.

Our advanced capabilities are built upon the core disciplines of surveying, aerial survey, mapping, data modelling and geographic information systems.

Resources

- 200 Staff
- 10 Aerial Survey Aircraft
- 4 LiDAR Units
- 7 Digital Cameras – 3 Large Format

Safety, Environment and Quality

AAM has adopted a target of Zero Workplace Injuries and is committed to the protection and well being of the people, communities and environments in which we work. AAM is committed to maintaining our ISO 9001:2008 quality certification so we meet internationally accepted standards for quality management. The quality culture in AAM embraces a philosophy and work approach that is client focused and process oriented.

Services in Detail:

SiteSee

SiteSee is the latest tool in safety that is being used in mining and engineering sites around Australia and the world. SiteSee generates a virtual 360° tour of an area, which reduces the need for onsite visits. This allows engineers and surveyors to visualise hazardous sites from the comfort of their desk.

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Services Overview:

Visualisation Products

- Aerial photography
- Orthophotos
- Satellite imagery
- 360° spherical imagery

Site Measurement

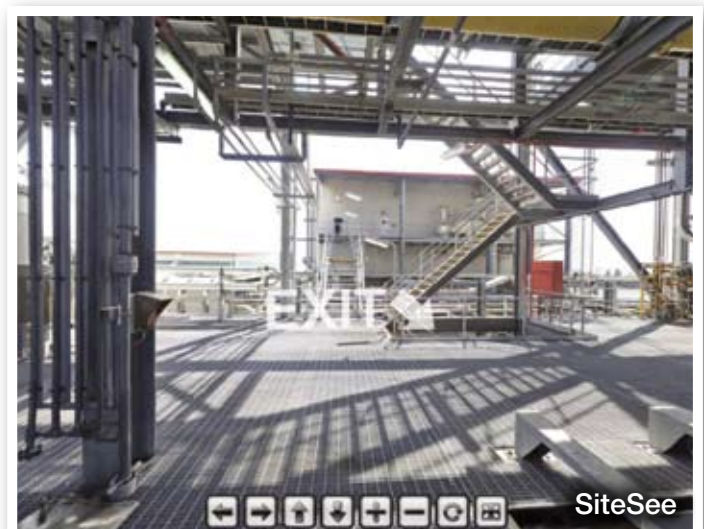
- 3D 'as built' surveys
- Deformation analysis
- GPS surveys
- Dimensional control
- Structural design
- Cadastral surveys

Specialist Products

- Pit and stockpile volumes
- Surface/elevation models
- 'Bare Earth' terrain models
- Mapping, contours
- Mine mapping

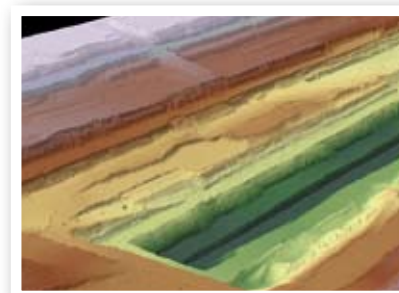
Derived Products

- Mine mapping
- Vegetation height
- Rehabilitation monitoring
- Building outlines
- Asset information
- Erosion extent



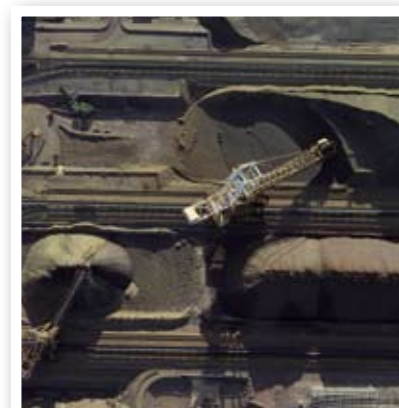
LiDAR

Airborne Laser Scanning, or LiDAR, creates highly accurate and detailed models of the Earth's surface. LiDAR produces a dense cloud of points that are classified, eg. as ground or non-ground points. These measurements are further processed according to client specifications. Typical datasets include natural surface terrain, buildings, vegetation, contours and 3D models. AAM introduced LiDAR to the Australian market over a decade ago and has completed more than 400 LiDAR surveys.



Aerial Imagery

Our diverse range of aerial survey technologies ensures the best tool is deployed to suit the accuracy, timeliness and scale of your project. Spectral resolution can range from natural colour, to colour infrared and multispectral. AAM remains a leader in the field through continuous investment in the latest imaging technologies including digital mapping cameras.



Satellite Imagery

High resolution satellites, such as GeoEye-1, IKONOS and RapidEye continuously orbit the earth, capturing submetre imagery. Stereo images can be ordered to create digital elevation models and contours. Imagery, simultaneously captured in panchromatic, natural colour and near infrared, can be processed with terrain data to generate accurate, georeferenced and GIS ready orthophotos.

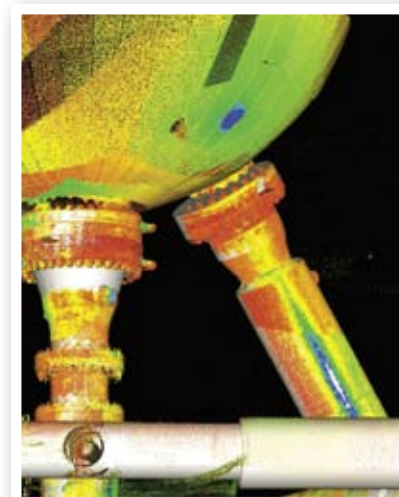


Land Survey

AAM surveyors provide ongoing support throughout the life of your project. We help develop, implement and document the most appropriate spatial strategies to maximise project benefits. Our technical solutions are founded on the scientific principles of geodetic surveying.

Industrial Survey

The adoption of 3D data modelling in a range of industries has seen an increase in the demand for terrestrial laser scanning for deformation and 'as built' surveys. Highly accurate 3D models of brownfield sites dramatically improve design and construction quality, virtually eliminating rework.



Terrestrial Laser Scanning

Terrestrial Laser Scanners permit the rapid capture of millions of accurate 3D point data from a safe distance. This data can be modelled or used in raw form for clash detection against designs. Our experience includes large industrial plants, offshore platforms and other complicated structures.

Photogrammetry

AAM uses state-of-the-art mapping equipment combined with diverse, specialist knowledge. These mapping resources successfully meet the most challenging photogrammetric mapping and orthophoto requirements.