



Aerial Photography



Our mission is to be the world's leading service-provider in the collection and interpretation of data relating to the earth's surface and sub-surface and in the support of infrastructure developments

Orthoimagery

Working in digital format provides flexibility and allows for image colour correction, mosaicing and enhancement of existing image features to facilitate seamless data sets. The application of image compression software allows high resolution image data sets to be reduced to manageable units for ease of use. "GIS ready" data is our objective via the support of major industry standard data formats. Digital imagery in conjunction with photogrammetric techniques can be used to generate cross sections, contour overlays, Digital Terrain Models, volume calculations and conventional detail maps.



ADS40 imagery of Rocklea during the 2011 Floods

LiDAR

LiDAR, or Light Detection & Ranging, is a means of rapidly creating an accurately detailed model of terrain, infrastructure or vegetation. The system transmits laser pulses and captures reflected electrical pulses using a high speed data recorder. The unvarying speed of light is used in conjunction with the time interval from the transmission to calculate the range or distance. Positional information of the aircraft is used to calculate the xyz terrestrial coordinates of the pulses which have returned to the laser. LiDAR systems collect the positional (x,y) and elevation (z) data at pre-defined intervals, resulting in a dense point cloud. Products such as Ground DEM, Model Key Points and Contours can be generated.



ADS40 Imagery over Gladstone Red Dam

Satellite & Radar

As a leading independent provider of Satellite Imagery and Value Added Services, Fugro Spatial can acquire, process and deliver satellite imagery from a wide range of resolutions from all the major satellite operators. Fugro Spatial Solutions will identify the optimal satellite data, mapping or imagery analysis techniques to fit your project scope, budget and timescale.



GeoEye Satellite Imagery over Bayswater

Aerial Photography

Aircraft Fleet

Fugro Spatial Solutions owns and operates a fleet of high performance, specialised, aerial survey aircrafts. These offer high speed, rapid climb rates and high altitude operations to provide optimum value to clients.

Aerial Cameras

Our cameras contain sophisticated technology that offers forward motion compensation for highest photo quality, as well as precision for mapping.

GPS Satellite Positioning Cameras

Our cameras are interfaced to precision DGPS satellite positioning. This provides accurate positions for each photo centre. The benefits are savings in ground control for our clients, faster mapping throughput, as well as accuracy and quality.

Inertial Georeferencing

Fugro Spatial Solutions operates leading edge inertial positioning technology interfaced with our camera systems. This provides precise orientations for each photocentre. The benefits are savings in ground control, reduction in aerotriangulation, and the ability to operate in complex areas (forests, deserts, offshore reefs and islands) Overall cost benefit and faster delivery.

International Operations

Our aerial acquisition systems operate throughout Australia and the Asia Pacific. Our services extend worldwide through other Fugro companies.

Rapid Ortho Production

Leading edge technology enables faster project completion. Fast provision of digital imagery to the team of mapping experts aids rapid digital orthophoto and map production.



Fugro Spatial Solutions Aircraft



ADS40 Imagery over Gold Coast Stadium

PERTH

18 Prowse Street, West Perth, WA 6005
Telephone : +61 (8) 9282 4100
Email : reception@fugrospatial.com.au

MELBOURNE

Level 7, 390 St Kilda Road, Melbourne, VIC 3004
Telephone : +61 (3) 9780 0610
Email : melbourne@fugrospatial.com.au

BRISBANE

Level 1, 7 Brandl Street, Eight Mile Plains, QLD 4113
Telephone : +61 (7) 3841 3433
Email : brisbane@fugrospatial.com.au

SYDNEY

21 Mellor Street, Meadowbank, NSW 2114
Telephone : +61 (2) 8878 9000
Email : sydney@fugrospatial.com.au