

Digital aerial photography



High resolution digital aerial photography
Anglesey airport, Wales

Electronic maps and photographs are now part of everyday life and have revolutionised the way we do business. Digital aerial photography in particular, has transformed the decision-making process concerning the natural and built environment for many government and commercial organisations.

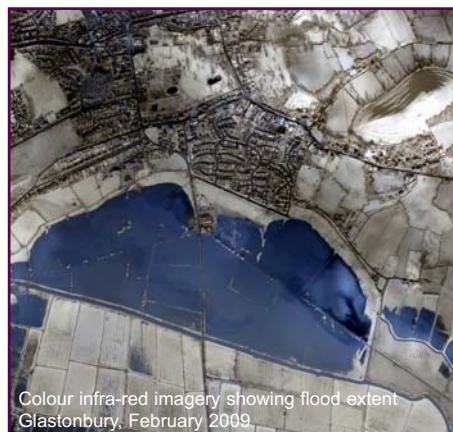
Geomatics Group offers high resolution, digital aerial photography. We have a range of aerial digital cameras capable of capturing still images up to resolutions of 39 megapixels. Pixel resolution of data from these cameras, typically ranges from 10 to 25 cm, depending on the requirements of the survey. Each image is stored with navigation data fed in from the LIDAR system, enabling us to rapidly ortho-rectify with minimal manual input to exceptionally high levels of accuracy and precision. Individual images are stitched together and colour balanced to produce a seamless mosaic of the whole survey area, ready for input into a GIS.

These images may also be draped over digital elevation data from the LIDAR, to create powerful 3D visualisations, particularly impressive for public consultations and communications campaigns.

In addition to regular aerial photography, we also offer the ability to capture colour



Vertical digital aerial photograph, 10cm resolution
Durham



Colour infra-red imagery showing flood extent
Glastonbury, February 2009

infra-red imagery (CIR), ideally suited to low cost environmental monitoring, agriculture and forestry applications.

Features & benefits

- 10-25cm ground resolution
- Available in a range of formats including JPG, GeoTIFF and ECW
- GIS ready
- Ordnance Survey Mastermap™ compatible
- Integrates with other datasets especially LIDAR, for enhanced usability and decision-making
- Colour infra-red imagery available

- Fast and cost effective solution
- Exceptionally high levels of accuracy
- Off-the-shelf imagery available covering urban and rural areas

Applications

- Flood mapping & monitoring
- Land-use surveys
- Agricultural management
- Urban mapping
- Town planning
- Archaeological investigation
- Environmental monitoring

Geomatics Group is a leading provider of high quality survey solutions. As a specialist business unit within the Environment Agency, we deliver integrated spatial data products to government and commercial clients. Combining cutting edge technology with expert personnel, we work to the highest scientific and ethical standards to provide accurate and high quality spatial data.

