



LiDAR & ORTHO SURVEYS

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LiDAR (light detection and ranging) is a fairly young technology designed to provide topographic mapping. When combined with a digital camera, a complete high speed mapping system is created. Southern Mapping uses Optech LiDAR units and medium format cameras. A LiDAR system measures distances directly from the aircraft to the ground during flight. The accuracy, point density and the image resolution are a direct function of flying height.

The laser is able to penetrate through gaps in vegetation and measure accurate ground level heights. LiDAR points have a very high inherent accuracy and coupled with a high point density, produce an extremely high accuracy ground and above ground data set. Advances in measuring equipment (GPS and IMU units) used on modern survey aircraft, means little to no ground control is required. LiDAR is also an active sensor and can be flown in sub-optimal weather conditions and can even be flown at night.

ABOUT SOUTHERN MAPPING

Southern Mapping provides LiDAR, Hyperspectral, Thermal surveys and mapping; as well as satellite imagery and associated product and GIS services for a variety of industries and sectors. These include civil engineering and infrastructure development, mineral exploration and mine management, environmental planning and rehabilitation, and urban and agricultural planning.

