

LiDAR Services Purchases Riegl LMS Q-560 laser

LiDAR Services International (LSI) (Canada) has recently purchased the new Riegl model Q-560 laser scanner which incorporates full waveform digitising of all return laser pulses. With this purchase, LSI becomes the first airborne LiDAR survey company in North America to acquire this advanced laser scanner.

The Q-560 laser has a unique feature in that it digitises the echo waveform of each laser pulse as it travels from the airborne platform to the ground below. This provides access to full surface information with the return waveforms giving detailed insights into the vertical structure of earth surface features, surface slope roughness and reflectivity.

Waveform digitisation offers an unlimited number of returns for each laser shot. Detailed resolution of surface roughness, slope and ground vegetation will now be possible. For forestry applications, the Q-560 will reveal detailed canopy and sub-canopy layers, height of all canopy layers, facilitating the determination of species, vegetation health, forest structure and biomass.

The Q-560 laser is a Class-1 eye safe laser pulsating at 100,000 Hz giving a measurement rate up to 66,000 laser pulses per second. The laser is extremely rugged and can be flown up to an elevation of 1.500 metres (5.000 feet) above the ground. The laser will install without modifications into both LSI's HELIX helicopter and Cessna 185F fixed wing mounts.

LSI also announces the commencement of a LiDAR survey in Madagascar for a large engineering company working on a new mine site, processing plant and slurry pipeline.

<https://www.gim-international.com/content/news/lidar-services-purchases-riegl-lms-q-560-laser>
