

Mobile Laser Scanning Platform



RIEGL Laser Measurement Systems' V-Line laser scanner generation was a main feature in the overview of the company's laser scanner product range at Intergeo. The Austrian company was showing terrestrial, airborne, mobile and industrial applications.

The combination of the last year launched V-Line Laser Scanners with appropriate IMU/GPS equipment results in this year's RIEGL innovation: the Mobile Laser Scanning System RIEGL VMX-250.

This compact, rugged and lightweight mobile laser scanning system for highly accurate and high-resolution dynamic 3D data collection impresses with its extraordinary ease of use which convinced the visitors during the live presentation. The system consists of a roof-carrier-mounted platform carrying two laser scanners, position and attitude sensors (INS) and mounting points for digital cameras or video equipment.

Two RIEGL VQ-250 360° "Full Circle" laser scanners provide up to 600,000 measurements/sec enabling a fast, efficient and highly accurate 3D mapping of highways, railways, runways and similar areas of interest.

The used RIEGL technology of "Echodigitization" and "Online Waveform Analysis" results in excellent multi target detection. By high penetration of hindering objects (e.g., fences, vegetation) even 3D data of partly hidden objects can be acquired. This opens unimagined possibilities of data processing for the surveyor creating highly accurate 3D computer models.