

Riegl VZ-400



The VZ-400 scanner can be used for terrestrial and mobile applications. Also contributing to the versatility of this instrument is the variety of ways that the scan positions can be registered. The VZ-400 has an integrated GPS receiver (with 2.5mm accuracy) and it can be used for stand-alone registration. The instrument can also register via control points or use a totalstation-like registration process.

The VZ-400 takes 125,000 measurements per second and has an accuracy of 5mm. According to Riegl, the VZ-400 uses a Class 1 invisible eye-safe beam and, weighs less than 22 pounds, and is extremely rugged.

The VZ-400's online waveform technology is able to capture thorough data, due to its ability to receive and store multiple returns. Systems based on echo digitisation, such as the VZ-400, offer more information per laser pulse. This additional information, including depth, roughness, and slope, allows valuable characteristics of the interfering targets to be inferred.

The technology also allows for the penetration of dense foliage. This detail-rich information has allowed remarkable archeological developments. Even under difficult canopy the archeological features can be distinguished in detail with online waveform technology.