RIEGL RILOC®-E25

RIEGL's enhanced entry-level IMU/GNSS solution for (mini)VUX-series laser scanners

RIEGL now offers their own LiDAR system solution for the miniVUX-series and the VUX-series comprising a fully integrated subsystem for localization and orientation (Localization/Orientation Component).

This version of the (mini)VUX-SYS includes a Micro Electro Mechanical System (MEMS) Inertial Measurement Unit (IMU), a GNSS unit, and appropriate software. All components are included in a compact and lightweight housing.

The combination of a (mini)VUX-series LiDAR sensor and RiLOC-E²⁵ into a compact complete LiDAR system is the ideal solution for small-scale LiDAR surveying with drones. In such applications, using a nearby local base station ensures the shortest base length and thus maximum accuracy in the georeferencing of the high-precision LiDAR data from the *RIEGL* LiDAR sensor.

Key Features

- tight coupling of IMU / GNSS / LiDAR data
- seamlessly integrated into the *RIEGL* post-processing workflow
- · lightweight, small form factor

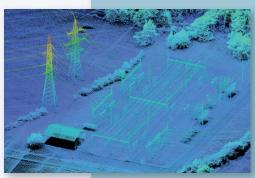


Specifications RiLOC®-E25

IMU system	MEMS based
IMU sampling rates	up to more than 700 Hz
IMU acceleration range	±8 g, full scale
IMU angular rate range	± 300°/sec
Performance specifications ¹⁾	0.02 - 0.04 m (position, post-processed)
GNSS system	L1/L2, GPS, GLONASS, Galileo and BeiDou
RiLOC-E ²⁵ dimensions	approx. 85 x 85 x 44 mm
RiLOC-E ²⁵ weight	approx. 0.35 kg / 0.8 lbs









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