

NEW RIEGL RiLOC-E

RIEGL's entry-level IMU/GNSS solution for miniVUX series laser scanners

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

This version of the miniVUX-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, that is directly attached to the RIEGL miniVUX-TUAV/-3UAV laser scanner.

The combination of a miniVUX series LiDAR sensor and the RiLOC-E 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 miniVUX series LiDAR sensor.

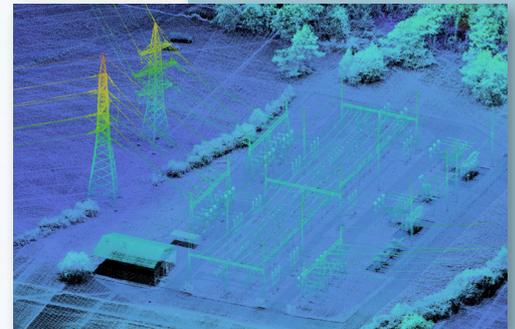
Key Features

- tight coupling of IMU / GNSS / LiDAR data
- seamlessly integrated into the RIEGL Post-Processing workflow
- lightweight, small form factor
- wide temperature range

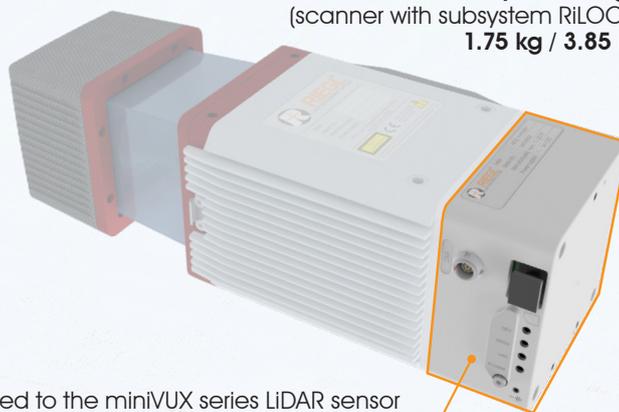


Specifications RiLOC-E

IMU system	MEMS based
IMU sampling rates	up to more than 800 Hz
IMU acceleration range	±8 g, full scale
IMU angular rate range	± 500°/sec
GNSS system	L1/L2, GPS, GLONASS, Galileo and BeiDou
RiLOC-E dimensions	approx. 99 x 85 x 43 mm
RiLOC-E weight	approx. 0.36 kg / 0.8 lbs



total system weight
(scanner with subsystem RiLOC-E)
1.75 kg / 3.85 lbs



RIEGL RiLOC-E
directly attached to the miniVUX series LiDAR sensor

