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-1UAV/-3UAV laser scanner.

The combination of a miniVUX-series LiDAR sensor and 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

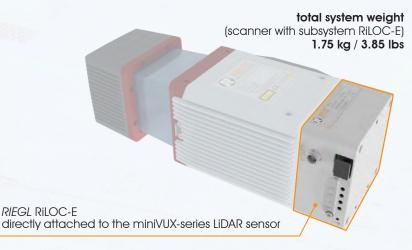
- tight coupling of IMU / GNSS / LiDAR data
- seamlessly integrated into the RIEGL post-processing workflow
- · lightweight, small form factor



Specifications RiLOC®-E

| up to more than 800 Hz |
|--|
| ±8 g, full scale |
| ± 500°/sec |
| 0.02 -0.05 m (position, post-processed) |
| L1/L2, GPS, GLONASS, Galileo and BeiDou |
| approx. 99 x 85 x 43 mm |
| approx. 0.36 kg / 0.8 lbs |
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This data sheet is compiled with care. However, errors cannot be fully excluded and alternations might be necessary.



