VERSEATILE SOLUTIONS FOR PROFESSIONAL UAV-BASED SURVEYING MISSIONS

Laser scanning from unmanned platforms enables data acquisition in hard-to-reach and/or hazardous areas at an excellent cost-benefit ratio. RIEGL provides the latest technology for this new, dynamically growing field with a broad line of miniaturized, survey-grade airborne laser scanners especially developed for UAV/UAS/RPAS use. Applications cover corridor mapping, pipeline inspection, mining, monitoring, forestry or even archeology and others.

**NEW RIEGL VUX-120**
very compact & lightweight 2 kg / 4.4 lbs
- NFB scanning (strictly nadir / +10° forward oblique / -10° backward oblique)
- for reliable data collection also on vertical structures and assets
- suitable for installation in small fixed-wing drones
- up to 1800 kHz Laser PRR
- range up to 1430 m @ ρ ≥80%
- up to 100° FOV
- accuracy 10 mm, precision 5 mm
- up to 15 target returns

**RIEGL miniVUX-3UAV/2UAV/1UAV**
very compact & lightweight 1.55 kg / 3.4 lbs
- for integration to various small UAVs
- up to 360° FOV
- accuracy 15 mm, precision 10 mm
- up to 5 target returns

**NEW RIEGL miniVUX-3UAV**
- 300 kHz / 200 kHz / 100 kHz Laser PRR (selectable)
- range up to 330 m @ ρ ≥80%
- FOV: 120° @ 300 kHz, 180° @ 200 kHz, 360° @ 100 kHz

**RIEGL miniVUX-2UAV**
- 200 kHz / 100 kHz Laser PRR (selectable)
- range @ 200 kHz: up to 280 m @ ρ ≥80%
- range @ 100 kHz: as given for miniVUX-1UAV

**RIEGL miniVUX-1UAV**
- 100 kHz Laser PRR
- range up to 330 m @ ρ ≥80%

**RIEGL VUX-240**
compact & lightweight 4.1 kg / 9 lbs
- versatile scanner for use on UAS/UAV/RPAS, helicopter or small manned aeroplane
- up to 1800 kHz Laser PRR
- range up to 2150 m @ ρ ≥80%
- 75° FOV
- accuracy 20 mm, precision 15 mm
- up to 15 target returns

**RIEGL VUX-1UAV**
compact & lightweight 3.5 kg / 7.7 lbs
- versatile and powerful sensor for wide area UAV surveying
- up to 550 kHz Laser PRR
- range up to 1050 m @ ρ ≥80%
- 330° FOV
- accuracy 10 mm, precision 5 mm
- up to 15 target returns

**RIEGL miniVUX-1DL „Downward-Looking”**
compact & lightweight 2.4 kg / 5.3 lbs
- design optimized for fixed-wing aircraft
- 100 kHz Laser PRR
- range up to 260 m @ ρ ≥80%
- 46° FOV
- accuracy 15 mm, precision 10 mm
- up to 5 target returns

Scan this QR code to watch the RIEGL videos on our YouTube Channel.
**RIEGL miniVUX-SYS with APX-15 UAV**
(epecially for fixed-wing UAVs)

- Fixed-wing integration example with RIEGL miniVUX-1DL LiDAR Sensor equipped with APX-15 UAV

**RIEGL miniVUX-SYS with APX-20 UAV**
(for fixed-wing, single-rotor or multi-rotor UAVs)

- RIEGL miniVUX-1UAV LiDAR Sensor equipped with APX-20 UAV

**RIEGL VUX-SYS with APX-20 UAV**
(for UAS/UAV/RPAS, helicopters or small manned aeroplanes)

- RIEGL VUX-1UAV LDAR Sensor equipped with APX-20 UAV, Flir Tau 2 thermal camera, and Sony Alpha 7R III camera

**RIEGL VUX-240 with APX-20 UAV**
(for UAS/UAV/RPAS, helicopters or small manned aeroplanes)

- RiCOPTER with RIEGL VUX-240 LDAR Sensor, APX-20 UAV and nadir RGB camera fully integrated

**RIEGL Integration Kit 600**
(for multi-rotor UAVs)

- add-on to the RIEGL miniVUX-SYS coming with shock-absorbing mounting kit, power supply module and cabling
- total weight approx. 0.7 kg (without sensor and camera)
- easy and user-friendly installation

**VARIOUS USER-FRIENDLY SYSTEM INTEGRATION OPTIONS**

Find your perfect system!
Please contact sales@riegl.com / info@ricopter.com to get more detailed information on the available solutions and to find the system perfectly suited for your application and needs.