

VERSATILE 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.

RIEGL miniVUX-1UAV/2UAV very compact & lightweight 1.55 kg / 3.4 lbs

- for integration to various small UAVs
- 360° FOV
- accuracy 15 mm, precision 10 mm
- up to 5 target returns

RIEGL miniVUX-1UAV

- 100 kHz Laser PRR
- range up to 330 m @ ρ ≥80%

NEW RIEGL miniVUX-2UAV

- 100 kHz / 200 kHz Laser PRR (selectable)
- range @ 100 kHz: as given for miniVUX-1UAV range @ 200 kHz: range up to 280 m @ $\rho \ge 80\%$

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 @ $\rho \ge 80\%$
- 330° FOV
- accuracy 10 mm, precision 5 mm
- up to 15 target returns



RIEGL'S UAV LIDAR SENSORS



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 @ $\rho \ge 80\%$
- 46° FOV
- accuracy 15 mm, precision 10 mm
- up to 5 target returns



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%
- accuracy 20 mm, precision 15 mm
- up to 15 target returns













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RIEGL miniVUX-SYS with APX-15 UAV (especially for fixed-wing UAVs)



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

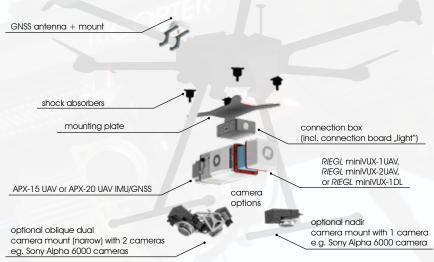
RIEGL miniVUX-SYS with APX-20 UAV (for fixed-wing, single-rotor or multi-rotor UAVs)



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

RIEGL 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



RIEGL VUX-SYS with APX-20 UAV

(for UAS/UAV/RPAS, helicopters or small manned aeroplanes)



RIEGL VUX-1 UAV LIDAR 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 LIDAR Sensor,
APX-20 UAV and nadir RGB camera
fully integrated



You Tube

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.

The *RIEGL* UAV LiDAR sensors & systems are designed & manufactured by *RIEGL* Laser Measurement Systems GmbH. It is distributed, supported and serviced by RICOPTER UAV GmbH, also a *RIEGL* company.

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