

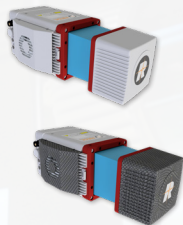


VERSATILE SOLUTIONS FOR PROFESSIONAL UAV-BASED SURVEYING MISSIONS

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 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.

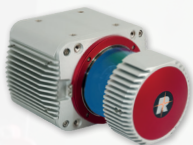
RIEGL miniVUX-1 / 3UAV extremely compact & lightweight 1.55 kg / 3.4 lbs

- for integration to various small UAVs
- Laser PRR from 100 kHz to up to 300 kHz (depending on sensor)
- range up to 330 m @ $\rho \geq 80\%$
- up to 360° FOV
- accuracy 15 mm, precision 10 mm
- up to 5 target returns



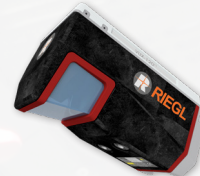
RIEGL VUX-1UAV²² / VUX-1LR²² compact & lightweight 3.5 kg / 7.7 lbs

- versatile and powerful sensor for wide area UAV surveying
- up to 1.200 kHz / 1.500 kHz Laser PRR
- range up to 1415 m / 1845 m @ $\rho \geq 80\%$
- up to 360° FOV
- accuracy 10 mm / 15 mm, precision 5 mm
- up to 15 target returns



RIEGL VUX-120²³ very compact & lightweight 2 kg / 4.4 lbs

- NFB (Nadir/Forward/Backward) scanning **for an optimal coverage of complex and vertical targets**
- suitable for installation in small fixed-wing UAVs
- up to 2400 kHz Laser PRR
- range up to 1430 m @ $\rho \geq 80\%$
- up to 100° FOV
- accuracy 10 mm, precision 5 mm
- up to 15 target returns



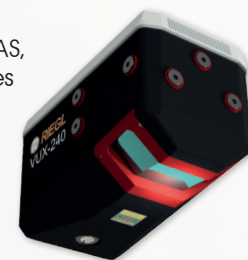
NEW RIEGL VUX-160²³ very compact & lightweight 2.65 kg / 5.8 lbs

- **with optionally fully integrated IMU/GNSS system**
- NFB (Nadir/Forward/Backward) scanning **for an optimal coverage of complex and vertical targets**
- up to 2400 kHz Laser PRR
- range up to 1800 m @ $\rho \geq 80\%$
- up to 100° FOV
- accuracy 10 mm, precision 5 mm
- up to 32 target returns



RIEGL VUX-240 compact & lightweight 4.1 kg / 9 lbs

- versatile scanner for use on UAS/UAV/RPAS, helicopters or small manned aeroplanes
- up to 1800 kHz Laser PRR
- range up to 2150 m @ $\rho \geq 80\%$
- 75° FOV
- accuracy 20 mm, precision 15 mm
- up to 15 target returns



Scan this QR code to watch the RIEGL videos on our YouTube Channel.

www.riegl.com

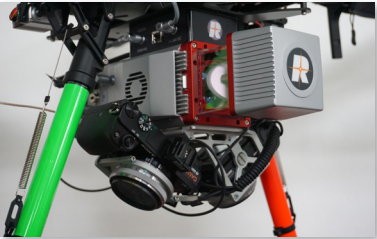




RICOPTER with RIEGL VUX-SYS Integrated

VARIOUS USER-FRIENDLY SYSTEM INTEGRATION OPTIONS

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



RIEGL miniVUX-SYS with oblique camera system on DJI M600



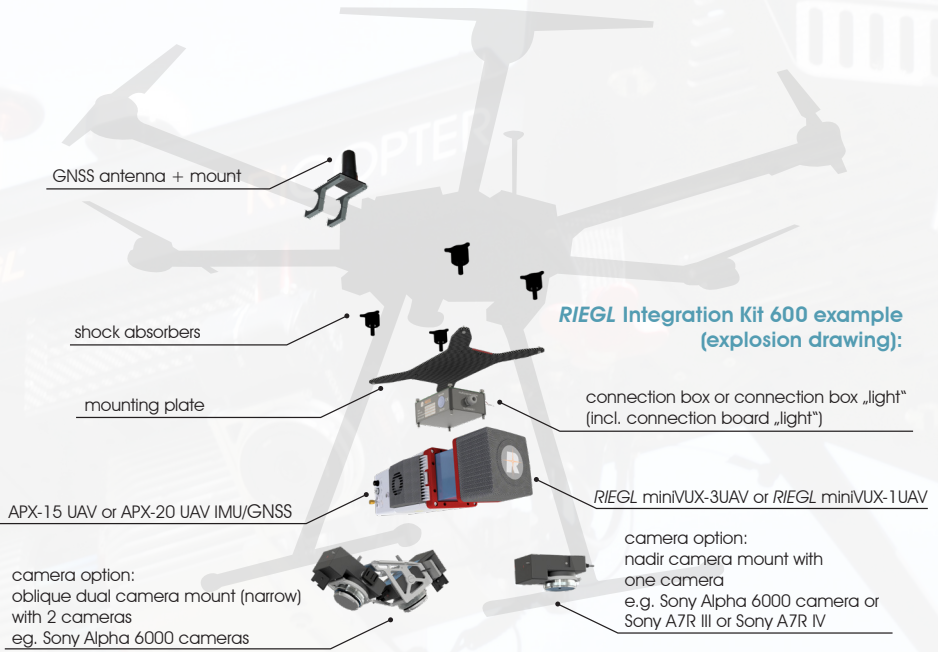
RIEGL miniVUX-SYS with Integration Kit 300 on DJI M300



RIEGL VUX-1 20-SYS on Acecore Zoe

RIEGL Integration Kit 600 / Integration Kit 300 (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 / 0.35 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)



multi-versatile system also used for MLS and ALS applications

RIEGL VUX-1 UAV LiDAR Sensor equipped with APX-20 UAV, Flir Tau 2 thermal camera, and Sony A7R 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



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. They are distributed, supported and serviced by RICOPTER UAV GmbH, also a RIEGL company.

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