

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 @ $\rho \ge 80\%$
- 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 @ $\rho \ge 80\%$
- 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 @ $\rho \ge 80\%$
- range @ 100 kHz: as given for miniVUX-1UAV

RIEGL miniVUX-1UAV

- 100 kHz Laser PRR
- range up to 330 m @ $\rho \ge$ 80%



RIEGL'S UAV LIDAR SENSORS

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



RIEGL[®]



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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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