

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 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 UAVs
- 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-Series 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

#### RIEGL miniVUX-1 / 2 / 3UAV

- Laser PRR from 100 kHz to up to 300 kHz (depending on sensor)
- range up to 330 m @  $\rho \ge 80$  %

### **NEW RIEGL miniVUX-1LR**

- Laser PRR 100 kHz
- range up to 500 m @  $\rho \geq$  80 % and 0.1 klx



# **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<sup>22</sup> / VUX-1LR<sup>22</sup> compact & lightweight 3.5 kg / 7.7 lbs

- versatile and powerful sensor for wide area UAV surveying
- range up to 1415 m / 1845 m @  $\rho \ge 80\%$
- up to 360 ° FOV

- 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



www.riegl.com

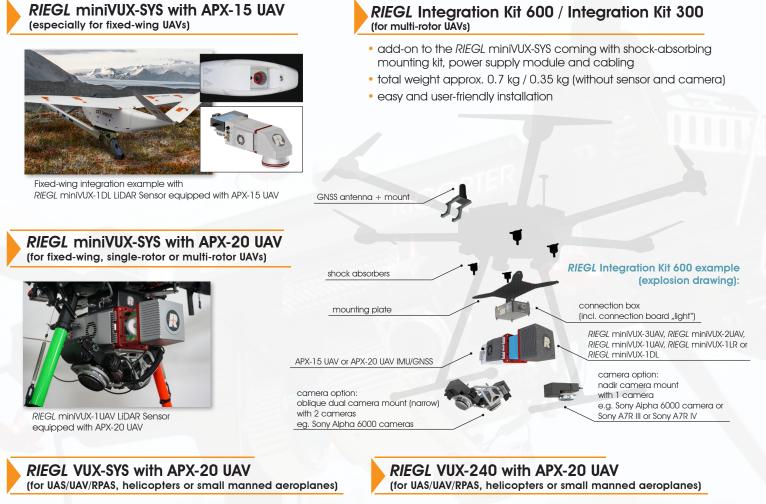
# RIEGL®







# VARIOUS USER-FRIENDLY SYSTEM INTEGRATION OPTIONS





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



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



#### Find your perfect system!

You Tube

Watch our video

youtube.com/riegllidar

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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