



# RIEGL VP-1 with integrated RIEGL VUX-240



RIEGL VUX-240 features

The RIEGL VUX-240 Airborne Laser Scanner smoothly fits into the small and light-weight RIEGL VP-1 Helicopter Pod, designed to be mounted on standard hard points and typical camera mounts of manned helicopters.

Quick release adapter brackets and minimum external cabling (i.e. power supply, LAN, GNSS antenna) allow quick system installation and removal.

## RIEGL VP-1 with VUX-240 Helicopter Pod for Airborne Laser Scanning (ALS)

### Typical Applications

- Corridor Mapping
- Archeology and Cultural Heritage Documentation
- Terrain and Canyon Mapping
- Flood Zone Mapping
- Surveying of Urban Environments
- Topography in Open-Cast Mining
- Construction-Site Monitoring
- Power Line, Railway Track, and Pipeline Inspection
- Accident Investigation
- Emergency Management Planning



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**RIEGL VP-1 with VUX-240 Technical Data**



**RIEGL VUX<sup>®</sup>-240 Sensor System**

<b>System Components</b>	RIEGL VUX-240 LiDAR sensor IMU/GNSS unit with GNSS antenna control unit digital cameras (optional)
<b>Scanner Performance</b>	refer to VUX-240 table below
<b>Total Weight</b>	approx. 20 kg (depending on camera configuration)
<b>IMU/GNSS Unit</b>	Applanix AP20
accuracy Roll, Pitch / Heading	0.015° / 0.035°
IMU sampling rate	200 Hz
position accuracy (typ.)	0.05 m - 0.3 m
<b>Camera Interfaces</b>	trigger and event marker
<b>Technical Data</b>	quick installation & removal using the existing mounts (e.g. AirFILM Camera System); mounting and operation at enduser's responsibility; area exposed to wind 0.114m <sup>2</sup>



RIEGL VUX-240 Airborne Laser Scanner



RIEGL VP-1 Helicopter Pod with VUX-240 and GNSS antenna mounted

**RIEGL VUX<sup>®</sup>-240 LiDAR Sensor**

<b>Laser Class</b>	3R
<b>Max. Effective Measurement Rate</b>	up to 1,500,000 meas./sec
<b>Max. Range @ target reflectivity 20%</b>	1200 m
<b>Minimum Range</b>	5 m
<b>Accuracy / Precision</b>	20 mm / 15 mm
<b>Field of View (FOV)</b>	75°

Class 3R Laser Product according to IEC60825-1:2014  
The following clause applies for instruments delivered into the United States: Complies with 21 CFR 1040.10 and 1040.11 except for conformance with IEC 60825-1 Ed.3., as described in Laser Notice No. 56, dated May 8, 2019.



system operation and data acquisition with RiACQUIRE

