

RIEGL VPX-1 with VUX-240

Helicopter Pod for Airborne Laser Scanning (ALS)

Typical Applications

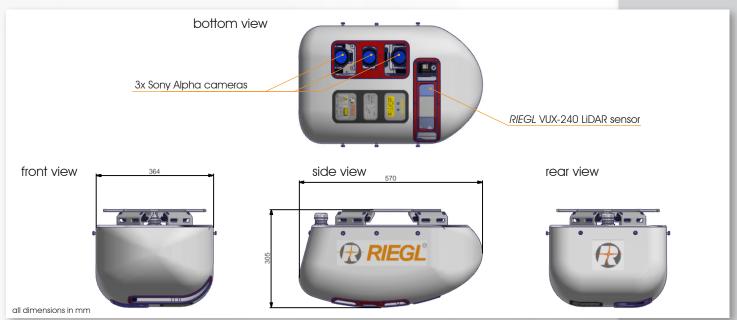
 Corridor Mapping
 Archeology and Cultural Heritage Documentation
 Terrain and Canyon Mapping
 Flood Zone Mapping • Surveying of Urban Environments • Topography in Open-Cast Mining • Construction-Site Monitoring Power Line, Railway Track, and Pipeline Inspection
 Accident Investigation
 Emergency Management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







RIEGL VPX-1 with VUX-240 Technical Data



RIEGL VUX®-240 Sensor System

System Components	RIEGL VUX-240 LiDAR sensor IMU/GNSS unit with GNSS antenna control unit digital cameras (optional)	
Scanner Performance	refer to VUX-240 table below	
Total Weight	approx. 20 kg (depending on camera configuration)	
IMU/GNSS Unit	Applanix AP20	Applanix AP60
accuracy Roll, Pitch / Heading IMU sampling rate position accuracy (typ.)	0.015° / 0.035° 200 Hz 0.05 m - 0.3 m	0.002° / 0.005° 200 Hz 0.05 m - 0.1 m
Camera Interfaces	trigger and event marker	
Camera Orientation Angles forward / nadir / backward	-20° / 0° / +20°	
Technical Data	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 ²	

RIEGL VUX®-240 LiDAR Sensor

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



Watch our vide youtube.com/riegllidar





RIEGL VPX-1 Helicopter Pod with VUX-240 and 3 Sony Alpha high resolution digital cameras



system operation and data acquisition with RiACQUIRE



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