

Riegl Configurations



Technical specifications

Scanner	miniVUX-1/3 UAV	miniVUX-1/3 UAV
GNSS-Inertial solution	APX-15 UAV	APX-20 UAV
Accuracy ¹	4 cm	2 cm
Precision ²	1 cm	1 cm
Measurements / Second	mV1 = 100,000 mV3 = 200,000	mV1 = 100,000 mV3 = 200,000
Pulse Repetition Rate (PRR)	mV1 = 100,000 mV3 = up to 300,000	mV1 = 100,000 mV3 = up to 300,000
Echos (returns)	up to 5	up to 5
Wavelength	905	905
Scanner Field of View (FOV)	0° x 360°	0° x 360°

General specifications

Autonomy	60 min. typ.	60 min. typ.
Power consumption	25 - 30 W	10 - 25 W
Operating temperature	-15° to +40°C	-15° to +40°C
Dimensions	375 x 124 x 126 mm	375 x 124 x 126 mm
Weight including battery (approx.)	2643 g	2743 g
Weight excluding battery ³ (approx.)	2413 g	2513 g

¹ Vertical RMSE. Represents the degree of conformity to ground control points.

² Vertical precision. Represents the repeatability of measurement in a same flight line.

³ The system may be configured to be powered directly by the drone.

Optional

- **NEW e-Connect** application allows to see the recording status of the modules in real-time.
- Additional laser modules available
 - Velodyne
 - Ultra Puck
 - Puck LITE
 - Hesai
 - XT32
 - XT32/M2X
- Additional camera modules available
 - Single and dual RGB cameras
 - Thermal cameras
 - Multispectral cameras
- Different INS modules available
 - APX-15 UAV
 - APX-20 UAV *

Integrate different types of cameras including 24 MP and **still have a weight under 2,7 kg** to be mounted on a battery operated drone!

* Only available with Riegl laser modules.

Applications



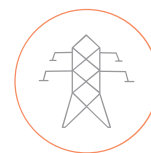
Topography



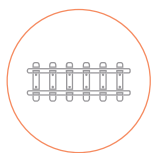
Buildings



Structures



Energy



Railroads