

# Riegl Configurations



## Technical specifications

Scanner	miniVUX-1/3 UAV	miniVUX-1/3 UAV
GNSS-Inertial solution	APX-15 UAV	APX-20 UAV
Accuracy <sup>1</sup>	4 cm	2 cm
Precision <sup>2</sup>	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 <sup>3</sup> (approx.)	2413 g	2513 g

<sup>1</sup> Vertical RMSE. Represents the degree of conformity to ground control points.

<sup>2</sup> Vertical precision. Represents the repeatability of measurement in a same flight line.

<sup>3</sup> 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



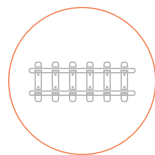
Buildings



Structures



Energy



Railroads