



# YellowScan Vx-20+



**The most accurate and high precision UAV LiDAR solution integrating the miniVUX-2UAV**

YellowScan Vx-20+ is the upgraded version of the Vx-20. It can switch from 100 to 200 kHz laser PRR to get the optimal point cloud that is needed for your projects.

Ideally suited for applications that requires sharp and accurate descriptions at a high altitude.



Technologies inside

applanix | RIEGL



**Key differentiators**

- ▶ High precision point cloud
- ▶ Highest accuracy
- ▶ Better UAV speed
- ▶ Optimized vegetation penetration
- ▶ Optimized for snowy and icy terrain measurement
- ▶ Switch from 100 to 200 kHz PRR



**UAV Integrations**

- ▶ Multirotor drones
- ▶ Helicopter drones

## Technical specifications.

Scanner	RIEGL miniVUX-2UAV
Wavelength	905 nm
Precision <sup>(1) (3)</sup>	1 cm
Accuracy <sup>(2) (3)</sup>	2.5 cm
Scanner field of view	360°
Shots per second	100k / 200k
Echoes per shot	Up to 5
GNSS-Inertial solution	Applanix APX-20 UAV

## Package includes.

### ✓ Hardware:

- ▶ YellowScan Vx-20+
- ▶ Charger and 2 batteries
- ▶ GNSS antenna and cable
- ▶ 2 USB flash drives
- ▶ Documentation

### ✓ Services:

- ▶ Boresight calibration certificate
- ▶ 1-year warranty
- ▶ In-person training
- ▶ Worldwide technical and operational support

## General characteristics.

Weight	3.1 kg (6.8 lbs) battery included
Autonomy	1.5 hours typ.
Power consumption	25 W
Environmental protection	IP54
Operating temperature	-20 to +40 °C
Size	L 43 x W 11 x H 17 cm

(1) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

(2) Accuracy is the degree of conformity of a measured position to its actual (true) value.

(3) One  $\sigma$  @ 50 m, nadir.

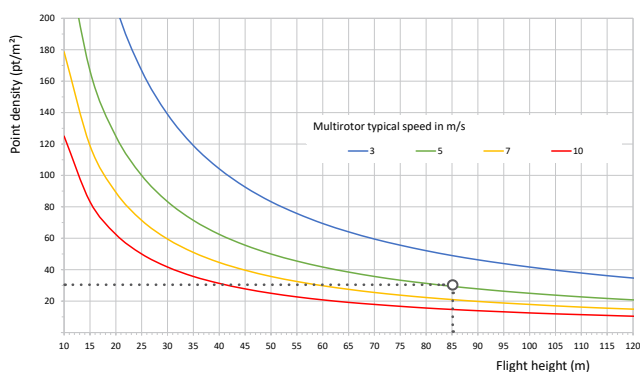
### ✓ Software:

- ▶ Applanix POSPac UAV, to post-process GNSS and inertial data for highest accuracy
- ▶ YellowScan CloudStation, to generate and visualize your georeferenced point cloud

### ⊕ Optional:

- ▶ Mounting bracket with single or dual Sony  $\alpha$ 6000 camera for DJI M600
- ▶ YellowScan LiveStation, the real-time in-flight LiDAR monitoring kit (software + 2 radio-modems)
- ▶ Warranty and technical support extensions

## Typical mission parameters.



FLIGHT SPEED  
5 m/s



ALTITUDE  
85 m



SWATH  
380 m

