

YellowScan Vx-20.

The high precision & long range LiDAR solution for UAVs

YellowScan's commitment is to provide the most reliable integrated LiDARs and outstanding customer support for demanding UAV applications.

This surveying solution is ideally suited for long range survey needs, advanced accuracy and precision, under-vegetation 3D modelling and short-time data processing.



Technologies inside

applanix | RIEGL



Key differentiators

- ▶ High precision point cloud
- ▶ Maximized range
- ▶ Calibrated intensity value
- ▶ Highest accuracy



UAV Integrations

- ▶ Multirotor drones
- ▶ Helicopter drones

Technical specifications.

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

Package includes.

- ✓ Pelican case containing:
 - ▶ YellowScan Vx-20
 - ▶ Charger and 2 batteries
 - ▶ GNSS antenna and cable
 - ▶ 2 USB flash drive
 - ▶ Documentation
- ✓ Boresight calibration certificate
- ✓ 1-year warranty
- ✓ In-person training
- ✓ Worldwide technical and operational support

General characteristics.

Weight	3.3 kg (7.3 lbs) battery included
Autonomy	1.5 hours typ.
Power consumption	25 W
Operating temperature	-20 to +40 °C
Size	L 43 x W 11 x H 17 cm

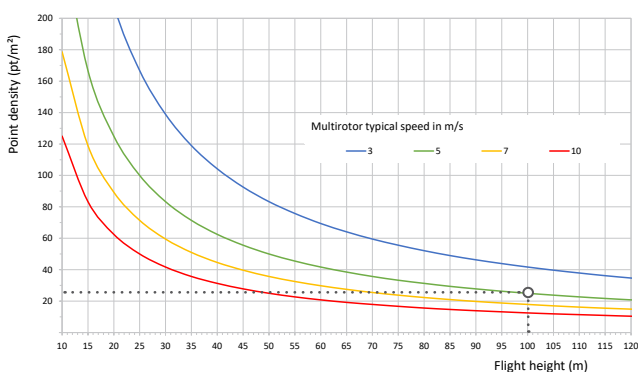
(1) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

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

(3) One σ @ 70 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 α 6000 camera
 - ▶ 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
100 m



SWATH
380 m

