

YellowScan Vx-15.

The long range & high precision UAV LiDAR solution

YellowScan Vx-15 is the lightest system integrating the Riegl Mini-VUX.

Ideally suited for high precision surveys such as civil engineering.

Coupled with the DJI M600 it allows over 20min flight time maximizing your survey production.



Technologies inside

applanix | RIEGL



Key differentiators

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



UAV Integrations

- ▶ Multirotor drones
- ▶ Helicopter drones

Technical specifications.

Scanner	RIEGL miniVUX-1UAV
Wavelength	905 nm
Precision ^{(1) (3)}	1 cm
Accuracy ^{(2) (3)}	5 cm
Scanner field of view	360°
Shots per second	100k
Echoes per shot	Up to 5
GNSS-Inertial solution	Applanix APX-15 UAV

Package includes.

- ✓ Pelican case containing:
 - ▶ YellowScan Vx-15
 - ▶ Charger and 2 batteries
 - ▶ GNSS antenna and cable
 - ▶ 2 USB flash drives
 - ▶ Documentation
- ✓ Boresight calibration certificate
- ✓ 1-year warranty
- ✓ In-person training
- ✓ Worldwide technical and operational support

General characteristics.

Weight	2.6 kg (5.7 lbs) battery included
Autonomy	1.5 hours typ.
Power consumption	25 W
Operating temperature	-20 to +40 °C
Size	L 35 x W 11 x H 17 cm

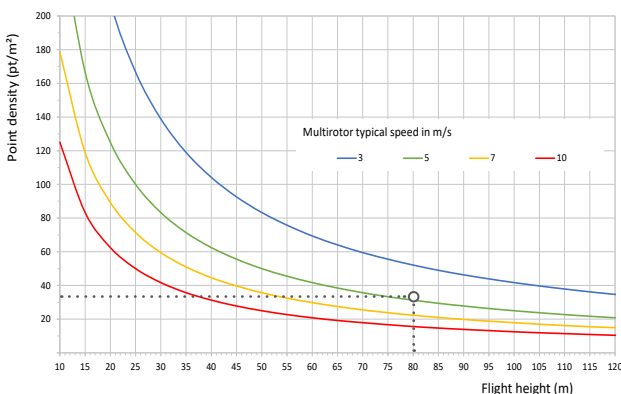
(1) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

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

(3) One σ @ 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 α 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
80 m



SWATH
380 m

