

# YellowScan Surveyor.

## The lightest and most versatile UAV LiDAR solution

YellowScan Surveyor is our lightest system with its 1.6kg including the battery.

Its low weight, accuracy and precision makes it the most versatile LiDAR.

Ideally suited for urban surveys subject to strict flying regulations requiring extra-light weight payloads.



Technologies inside

**applanix**

Velodyne LiDAR



Key differentiators

- ▶ Fits most applications
- ▶ Compact
- ▶ Lightest



Integrations

- ▶ Multirotor drones
- ▶ Helicopter drones
- ▶ Land vehicles

## Technical specifications.

Scanner	Velodyne VLP-16
Wavelength	903 nm
Precision <sup>(1) (3)</sup>	4 cm
Accuracy <sup>(2) (3)</sup>	5 cm
Scanner field of view	360°
Shots per second	300k
Echoes per shot	Up to 2
GNSS-Inertial solution	Applanix APX-15 UAV

## Package includes.

### ✓ Hardware:

- ▶ YellowScan Surveyor
- ▶ 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	1.6 kg (3.5 lbs) battery included
Autonomy	1.5 hours typ.
Power consumption	15 W
Operating temperature	-20 to +50 °C
Size	L 16 x W 10.5 x H 14 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.

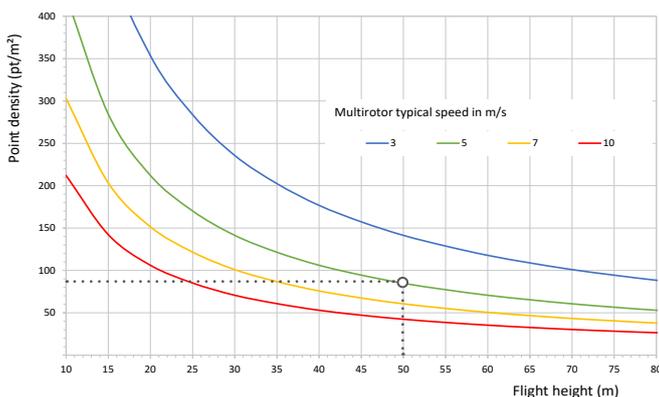
### ✓ Software:

- ▶ 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
- ▶ YellowScan Fly & Drive

## Typical mission parameters.



FLIGHT SPEED  
5 m/s



ALTITUDE  
50 m



SWATH  
150 m

