

# YellowScan Vx-15.



## Operative and reliable turn-key LiDAR system for long range and advanced precision survey needs

Following YellowScan philosophy « Just press the Yellow Button », YellowScan designed an all-integrated, easy-to-use LiDAR system that includes the renowned Riegl laser scanner and Applanix UAV IMU APX-15.

YellowScan Vx-15 is an excellent solution for your high flight UAV projects with short time data processing needs. It is ideally sized for all kind of UAV.



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 <sup>(1) (3)</sup>	1 cm
Accuracy <sup>(2) (3)</sup>	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 drive
  - ▶ Documentation
- ✓ Boresight calibration certificate
- ✓ 1-year warranty
- ✓ In-person training
- ✓ Worldwide technical and operational support

## General characteristics.

Weight	2.95 kg (6.5 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

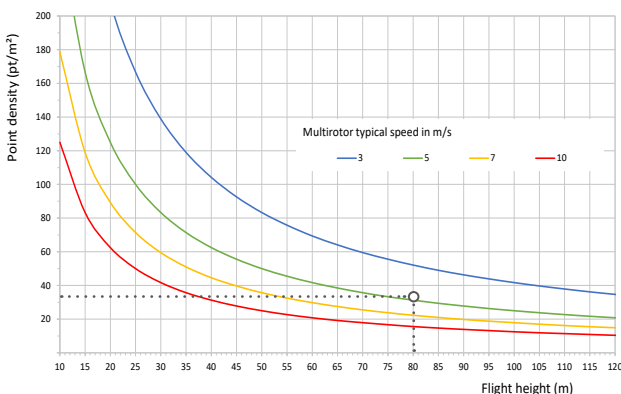
(1) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

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

(3) One  $\sigma$  @ 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
  - ▶ 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**

