

# The high precision & long-range LiDAR solution for UAVs

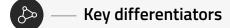
Vx-DL.

YellowScan's commitment is to provide the best integrated LiDAR systems and outstanding customer support for demanding UAV applications.

YellowScan Vx-DL is a lightweight turn-key LiDAR system specifically designed to meet the needs of corridor mapping.

The "downwardlooking" field of view provides a very high point density and is ideal for linear projects such as powerline and pipeline surveillance or roadway and railway infrastructure inspection.





- Optimized for fast-moving platform
- Dedicated to linear infrastructure scanning

## **W** — UAV Integrations

- Multirotor drones
- Helicopter drones
- Fixed-wings

# Technical specifications.

Scanner	RIEGL miniVUX-1DL
Wavelength	905 nm
Precision <sup>(1) (3)</sup>	1 cm
Accuracy <sup>(2) (3)</sup>	2.5 cm
Scanner field of view	46°
Shots per second	100k
Echoes per shot	Up to 5
GNSS-Inertial solution	Applanix APX-20 UAV

## General characteristics.

Weight	4.1 kg (9 lbs) battery included
Autonomy	45 minutes typ.
Power consumption	50 W
Operating temperature	-20 to +40 °C
Size	L 42 x W 11 x H 19 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  $\sigma$  ( $\sigma$  50 m, nadir.

## Package includes.

- ✓ Pelican case containing:
  - YellowScan Vx-DL
  - 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

#### Sofware:

- 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 Sony α6000 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 **60 m** 



SWATH **50 m** 

