

YellowScan Fly & Drive.

Fly when you can, Drive when you must.

The YellowScan Fly & Drive is a versatile land vehicle-mounted or UAV-mounted mobile mapping system.

high resolution It combines scanning and precise positioning to collect geo-referenced point clouds for a wide range of applications.



Key features

- Multi-scope mobile (ground) and UAV (airborne) mapping systems
- Precision positioning using high end GNSS and IMU coupled system
- Easy to use, easy to install, light weight and low power consumption
- Installation on any kind of UAVs and vehicles



Integrations

- Multirotor drones
- Fixed-wings
- Land vehicles

Solution designed in partnership with MicroGeo _



Technical specifications.

LIDAR UNIT (1)	YELLOWSCAN SURVEYOR	YELLOWSCAN SURVEYOR ULTRA
LASER SCANNER		
Туре	Velodyne VLP-16	Velodyne VLP-32
Precision ^{(2) (4)}	4 cm	10 cm
Accuracy ^{(3) (4)}	5 cm	5 cm
Scanner field of view	360°	360°
Maximum range	100m	200m
Shots per second	300k	600k
Typical driving speed	25km/h	50km/h
IMU / GNSS		
GNSS-Inertial solution	Applanix APX-15	Applanix APX-15
Multiconstellation	GPS, GLONASS, GALILEO, BEIDOU	GPS, GLONASS, GALILEO, BEIDOU
Dual dynamic model	Airborne / Mobile mapping	Airborne / Mobile mapping
Antenna	GNSS L1/L2 survey grade	GNSS L1/L2 survey grade
GENERAL SPECIFICATIONS		
Weight: Airborne config. Weight: Mobile config.	1.6 kg battery included 5.6 kg battery included	1.7 kg battery included 5.7 kg battery included
Dimension: Airborne config. Dimension: Mobile config.	L 16 x W 10.5 x H 14 cm L 35 x W 57 x H 48 cm	L 18 x W 10.5 x H 14 cm L 35 x W 58.5 x H 48 cm

(1) For more information about each LiDAR system, please refer to their respective datasheets. (2) Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

(3) Accuracy is the degree of conformity of a measured position to its actual (true) value.
(4) Post-processed solution, without GNSS outage.

Package configuration.

✓ What's included:

HARDWARE

- YellowScan Surveyor or Surveyor Ultra with Fly & Drive option
- Fly & Drive car pod
- Mounting bracket compatible with UAV & land vehicles
- GNSS antenna and cable

SOFTWARE

- Applanix POSPac MMS
- YellowScan CloudStation

+ Optional:

- ▶ Single or dual camera options for DJI M600
- > 360° panoramic camera for vehicle mounting
- > DMI (odometer)
- Power supply cable for vehicle
- YellowScan LiveStation



