

YellowScan Fly & Drive.

**Fly when you can,
Drive when you must.**

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

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



Key features

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



Integrations

- ▶ Multirotor UAV
- ▶ VTOL UAV
- ▶ Land vehicle

System integration options.

▶ LiDAR unit

LiDAR system ⁽¹⁾	YellowScan Surveyor Ultra
Scanner	Hesai XT32M2X
Precision ^{(2) (4)}	3 cm
Accuracy ^{(3) (4)}	2.5 cm
Scanner field of view	360°
Maximum range	140 m
Shots per second	640 000
Typical driving speed	25km/h

▶ IMU / GNSS

GNSS-Inertial solution	SBG Quanta Micro
Multiconstellation	GPS, GLONASS, GALILEO, BEIDOU
Dual dynamic model	Airborne / Mobile mapping
Antenna	GNSS L1/L2 survey grade

(1) For more information about the LiDAR system, please refer to its 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.

▶ General specifications

Weight: Airborne config	0.983 kg battery excluded
Weight: Mobile config.	4.98 kg battery excluded
Dimension: Airborne config.	L 160 x W 103 x H 138 mm
Dimension: Mobile config.	L 350 x W 570 x H 480 mm

LiDAR system


YellowScan
Surveyor Ultra

GNSS antenna

GNSS L1/L2
survey grade

Car pod

Aluminum chassis and
fiberglass aerodynamic pod

 **LiveStation add-on**
Real-time in-flight LiDAR
monitoring solution

Mounting bracket
Quick mount for Fly & Drive
pod and DJI M300 / M600