YellowScan Surveyor

World's lightest and most accurate LiDAR solution for UAVs

a Velodyne LiDAR® scanner inside

Designed by Surveyors for Surveyors, this turn-key system is quick and easy to operate, ideally suited for precise topography and demanding requirements for civil engineering and mining applications.

With a robust and fully integrated system designed to meet the needs of most demanding survey professionals and terrain, YellowScan Surveyor is quickly and easily adapted to any drone, generating data when and where you need it.

YellowScan

No need to only rely on a plane or helicopter... YellowScan solutions are ultra-compact and light. The first turn-key LiDAR system giving you access to highly accurate 3D images from any drone.

Technical specification

- Velodyne VLP-16 Class 1 laser
- Wavelength: 905 nm
- Maximum range: 100 m abs.
- Typical operating altitude: 10 - 60 m
- Precision: 4 cm[1]
- Accuracy: 5 cm[2]

NB: Can be optimized with standard post-processing.

- Scanner field of view: 360°
- 300 000 shots per second
- Multi-echo technology: up to 2 echoes per shot
- 220 Channels GNSS : GPS, GLONASS, BeiDou. RTK and PPK mode available
- Operating temperature: -20 °C to +50 °C

Included accessories

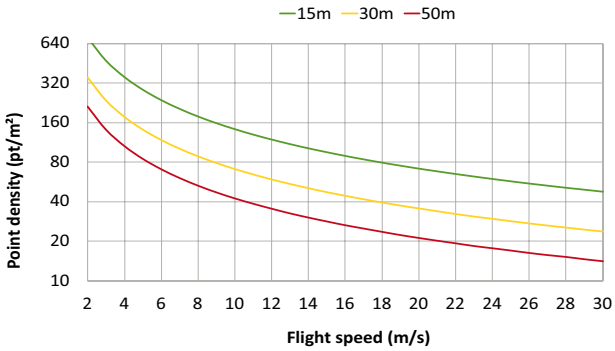
- 2 batteries + charger
- POSPac™ UAV, GNSS and INS processing software.
- YellowScan Software, to produce geo-referenced point cloud.

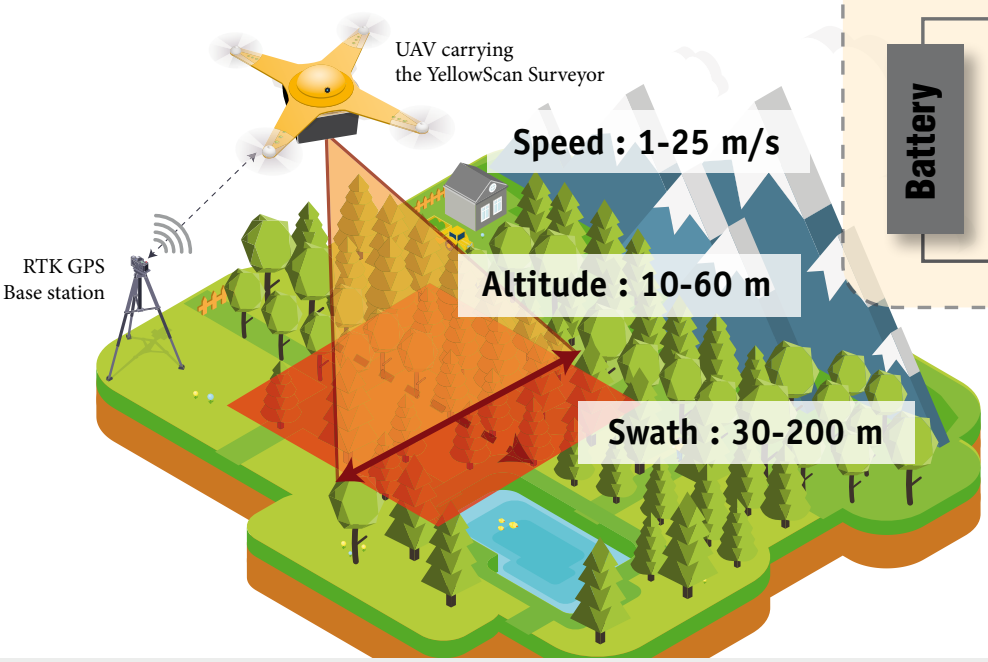
Power and dimensions

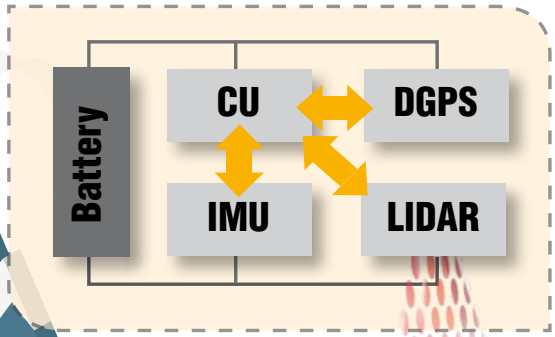
- Weight: 1.6 kg battery included
- Autonomy: 1.5 hours typ.
- Size (cm): L 16.2 x W 10.4 x H 14
- Power consumption: 15 W

(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

Point density by flight speed and altitude







The end-to-end revolution:
All the tools and support you need in one system

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