YellowScan Mapper

The lightweight LiDAR solution for UAV's

YellowScan Mapper is a lightweight turn-key surveying solution for drones and other ultra-light aircrafts.

YellowScan Mapper's small size and ultra-light weight allow it to be mounted on most UAV's.

YellowScan can penetrate vegetation!
- Corridor mapping
- Environment
- Archeology
- Forestry

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

- Class 1 laser
- Wavelength: 905 nm
- Maximum range: 100m typ. 150m abs.
- Range resolution: 4 cm
- Precision: 10 cm[1]
- Absolute accuracy (XY): 0.10m + 1% x altitude[2]
- Absolute accuracy (Z): 0.10m + 0.5% x altitude[2]
  NB: This accuracy level is the integrated system accuracy as measured just after the acquisition. It can be optimized by a factor of 3 with standard post-processing techniques.
- Scanner field of view: 100 °
- 40 000 shots per second
- Multi-echo technology: up to 3 echoes per shot
- L1 /L2 GPS, GLONASS, RTK-ready
- Operating temperature: -20 °C to +50 °C

Included accessories

- 2 batteries + charger
- Software to produce geo-referenced point cloud
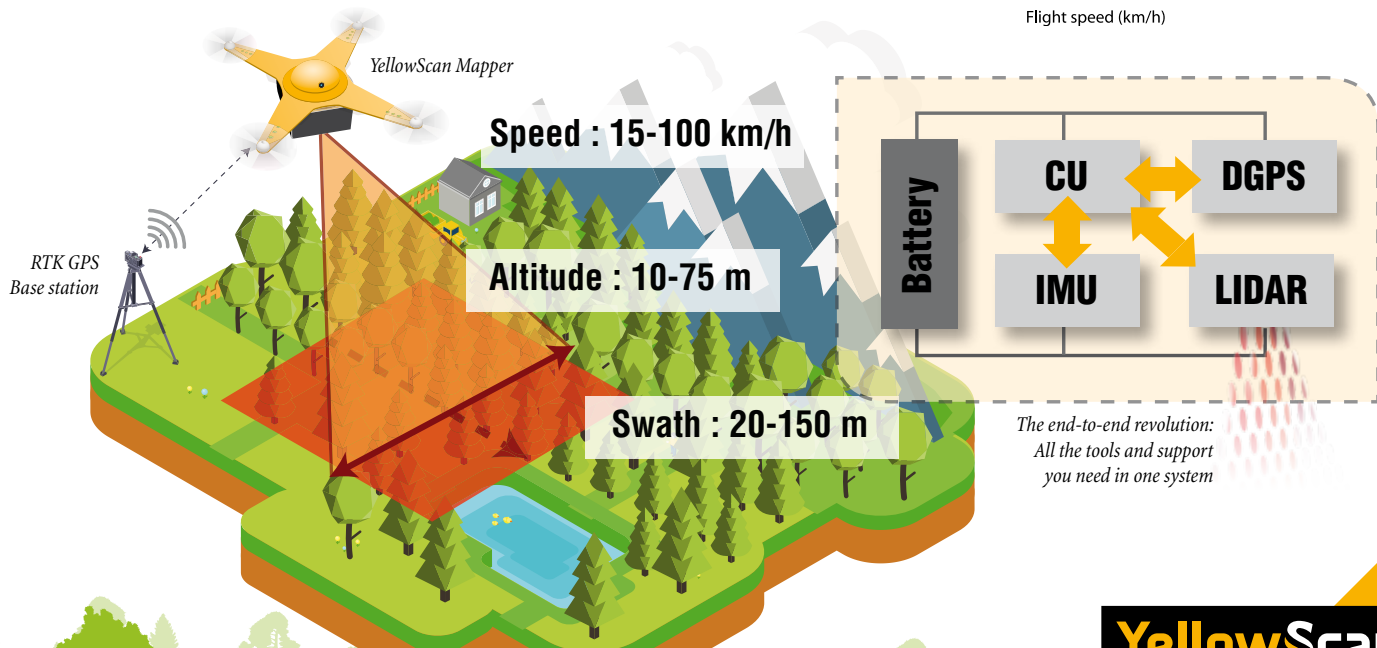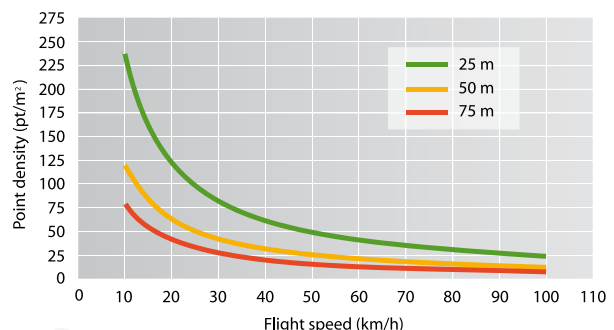
Optional Accessory

- 16.2MP RGB Camera with YellowScan adapter for LiDAR synchronization

Power and dimensions

- Weight: 2.1 kg battery included
- Autonomy: 2 hours typ.
- Size: L 172mm x W 206mm x H 147mm
- Power consumption: 10W

(1) Precision, also called reproducibility or repeatability, is variation in 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

Point density (pt/m²) vs Flight speed (km/h) — curves for 25 m, 50 m, 75 m

YellowScan Mapper

RTK GPS Base station

Speed : 15-100 km/h

Altitude : 10-75 m

Swath : 20-150 m

Battery — CU — DGPS — IMU — LIDAR

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

www.yellowscan.fr

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