



YellowScan Surveyor Ultra

The high density & long-range LiDAR solution for UAVs

YellowScan's commitment is to provide the most reliable integrated LiDARs and outstanding customer support for demanding UAV applications.

The Surveyor Ultra is a lightweight turn-key LiDAR system. Thanks to its high-density specs, the system is ideally suited for high speed UAVs & long range needs. Its light weight makes it also easy to mount on any drone, including VTOLs.



a **Velodyne LiDAR**® scanner inside

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 LiDAR VLP-32C Class 1 laser
- Wavelength: 905 nm
- Maximum range: 200 m abs.
- Typical operating altitude: 10 -120 m
- Precision: 5 cm¹
- Accuracy: 10 cm²

NB: Can be optimized with standard post-processing.

- Scanner field of view: 360°
- 600 000 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: -10°C to +40 °C

Included accessories

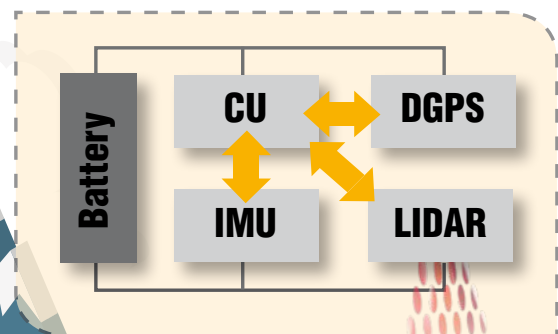
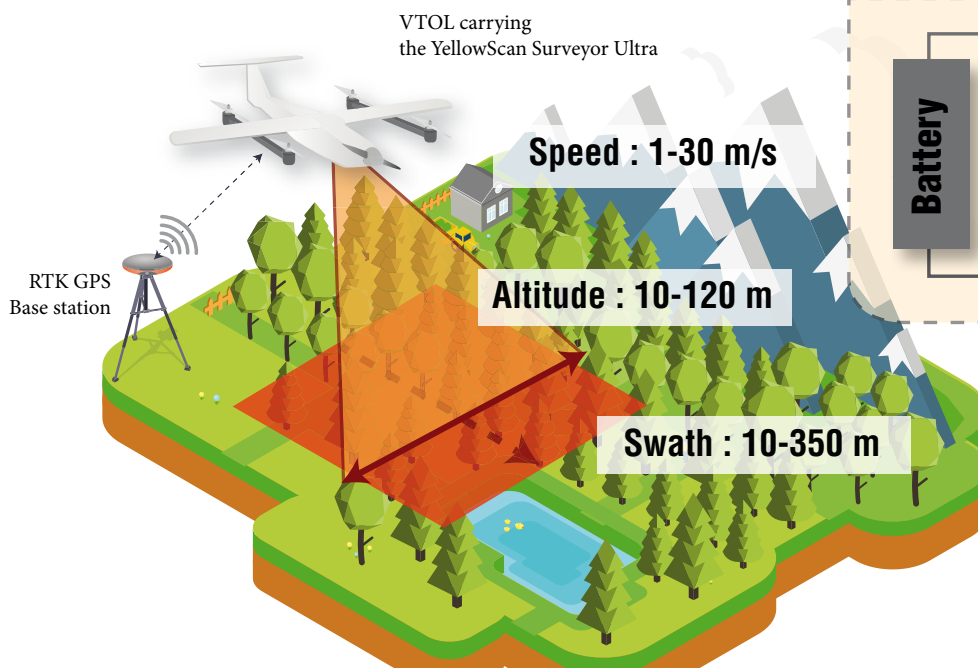
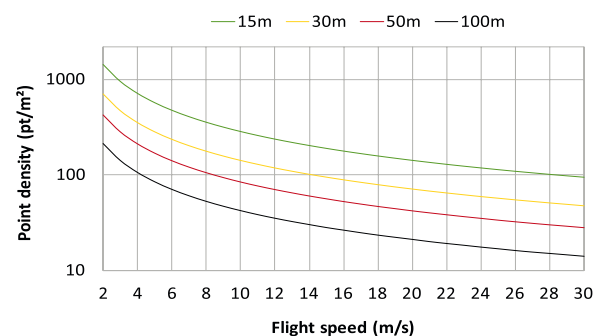
- 2 batteries + charger
- POSPac™ UAV, GNSS and INS processing software.
- YellowScan Software, to produce geo-referenced point cloud.

Power and dimensions

- Weight: 1.7 kg battery included
- Autonomy: 1.2 hours typ.
- Size (cm): L 17.8 x W 10.4 x H 14
- Power consumption: 19 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

www.yellowscan-lidar.com

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