





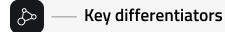
# The next-generation of integrated UAV LiDAR solution

YellowScan Mapper is the next generation of integrated lidar solution.

Its low weight, mid-range capability, top-end point density and advanced accuracy and precision, makes it the best value for money in our portfolio.

It is dedicated to UAV borne mapping applications.





- High point density
- Compact
- Advanced point cloud precision

# Wav Integrations

- Single rotor UAV
- Multirotor UAV
- VTOL UAV

# Technical specifications.

## Mapper LiDAR system

Laser scanner	Livox Horizon
GNSS inertial solution	Applanix APX-15 UAV
Precision (1)(3)	4 cm
Accuracy (2) (3)	4 cm
Typ. flight speed	10 m/s
Typ. flying height	60 m
Max. rec. flying height	70 m
Point density	230 pts/sqm @ 60 m AGL 10 m/s
Laser range	Up to 130 m
Laser wavelength	905 nm
Scanner field-of-view	81.7 ° x 25.1°

<sup>(1)</sup> Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

Max. data generated (4)	480 000 points/sec
Echoes per shot	Up to 2
Shots per second	Up to 240 000
Scanning frequency	Up to 10 Hz
RGB camera	Optional
Weight	1.3 kg (2.9 lbs) batt. excl.
Size	L 143 x W 98 x H 149 mm
Autonomy	1 hour typ.
Power consumption	19 W
Operating temperature	-10 to +40 °C

<sup>(2)</sup> Accuracy is the degree of conformity of a measured position to its actual (true) value.

## Optional camera module

Sensor	APS-C Type Exmor CMOS	
Resolution	19.8 Mpx	
Lens	Sony E 16mm F2.8	
Width	87 mm	
Height	78 mm	

Depth	106 mm
Weight	0.3 kg (0.6 lbs) with camera lens
Power	Powered by Mapper
Power consumption	2.2 W

# Add-ons.

## + Optional:

- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software & 2 radio-modems)
- CloudStation Pro: refine and improve your data quality, with more export options
- Warranty and technical support extensions

- Stand-alone mounting bracket for DJI M600/300
- Stand-alone mounting bracket for DJI M210
- DJI skyport or Gremsy quick release adapters
- Single-camera module (RGB)

# Package includes.

#### Hardware:

- YellowScan Mapper
- DJI Skyport adapter for M300 / M200
- 2 Batteries
- GNSS antenna and cable
- 2 USB flash drives
- Rugged backpack

## Services:

- > 1-year unlimited technical support
- 1-year warranty
- In-person or online training
- Camera & boresight calibration certificate

## ✓ Software:

- Applanix POSPac UAV, to process GNSS and inertial data for highest accuracy
- YellowScan CloudStation Essential to generate, visualize, inspect, and export your data.

<sup>(3)</sup> One o @ 50 m, nadir.

<sup>(4)</sup> Theoretical maximum of points with all shots yielding the maximum number of echoes. May vary depending on flight and survey conditions, and surveyed environment.