

# Affordability. Flexibility. Productivity.

Surveyor Ultra.

The YellowScan Surveyor Ultra marks a new generation of YellowScan LiDAR systems integrating SBG Systems' IMU, combined with an integrated RGB camera for colorization purposes.

Combining light weight and high density, its flexiblity makes a great addition anywhere.





- 🐎 Key differentiators
  - 360° Surveying & Mapping
  - Weight: 1 kg
  - Easy to use and process
- Integrations
  - Single-rotor UAV
  - Multi-rotor UAV
  - VTOL UAV

## Technical specifications.

Laser scanner	Hesai XT32M
GNSS inertial solution	SBG Quanta Micro
Precision (2)(3)	3 cm
Accuracy (2)(3)	2.5 cm
Typ. flight speed	10 m/s
Typ. flight height	100 m
Max. rec. flight height	140 m
Point density	60 pts/sqm @ 100m AGL 10 m/s
Laser range	Up to 300 m
Laser wavelength	905 nm
Scanner field-of-view	360° x 40.3°

<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)	1 920 000 points/sec
Echoes per shot	Up to 3
Shots per second	Up to 640 000
Scanning frequency	Up to 20 Hz
RGB camera	Built-in (for colorization purposes)
Weight	1.05 kg (2.3 lbs) batt. excl.
Size	L 153 x W 113 x H 117 mm
Battery autonomy	1 hour typ.
Power consumption	23 W
Operating temperature	-10 to +40 °C

<sup>(3) 1</sup>σ @ 50 m, nadir.

## Package includes.

#### ✓ Hardware:

- YellowScan Surveyor Ultra
- 2 Batteries
- Rugged pelicase
- UAV GNSS antenna and cable
- 2 USB flash drives
- Documentation

#### ✓ Services :

- 1-year warranty & unlimited technical support
- In-person or online training
- Boresight calibration certificate

#### ✓ Software :

- SBG Qinertia to post-process GNSS and inertial data for highest accuracy
- CloudStation Essential
   Visualize, inspect, colorize from orthophotos, and export your data.

### + Optional accessories and enhancements :

- Stand-alone mounting bracket
- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software & 2 radio-modems)
- Warranty and technical support extensions
- Single- or Dual-camera modules (RGB)



CloudStation Pro

Visualize, inspect, refine your data quality, enrich your data with classification and color, and unlock more export features.

CloudStation Ultimate
 Zero compromise, all features activated.
 Includes Orthophoto generation and Command Line (ytk) processing for automation & batching.



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

<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.