YellowScan

YellowScan Surveyor Ultra.

Affordability. Flexibility. Productivity.

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.



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°

 Precision, also called reproducibility or repeatability, accounts for the variation 	
(1) recision, also cance reproducionity of repeatability accounts for the validation	

in successive measurements taken on the same target.

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

Package includes.

✓ Hardware :

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

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 0.983 kg (2.167 lbs) batt. excl. L 153 x W 113 x H 117 mm Size Battery autonomy 1 hour typ. Power consumption 23 W Operating temperature -10 to +40 °C

(3) 1σ @ 50 m, nadir.

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

Services :

- I-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 Service activated.
 Includes Orthophoto generation and Command Line (ytk) processing for automation & batching.







5 m/s
 10 m/s
 20 m/s

	50 m	100 m	150 m
5 m/s	246	123	82
10 m/s	123	62	41
20 m/s	62	31	21

80 m 100 m 110 m 120 m 130 m 140 m 150 m AGL 50 m 60 m 70 m 90 m

Point density (pt/m²)



Dimensional drawings.





① Dimensions expressed in millimeters



Typical point cloud snapshots.

