





YellowScan Surveyor Ultra OEM.



The YellowScan Surveyor Ultra OEM marks a new generation of OEM LiDAR systems integrating SBG Systems' IMU, combined with an integrated 8 MP RGB camera for colorization purposes.

Combining light weight and high density, it is ideal for integration in VTOL UAV.



Technologies inside







- Key differentiators

- > 360° Surveying & Mapping
- Easy to use and process
- Safe operational range



Integrations

- Single rotor UAV
- Multirotor UAV
- VTOL UAV

Technical specifications.

Laser scanner	Hesai XT32M2X
GNSS inertial solution	SBG Quanta Micro
Precision (1)(3)	3 cm
Accuracy (2) (3)	2.5 cm
Typ. flight speed	18 m/s
Typ. flying height	100 m
Max. rec. flying height	120 m
Point density	34 pts/sqm @ 100 m AGL 18 m/s
Laser range	Up to 300 m
Laser wavelength	905 nm
Scanner field-of-view	360° x 40.3°
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 8MP
Weight	0.754 kg
Size	L 128 x W 101 x H 111 mm
Autonomy	Powered from UAV
Power consumption	20 W
Operating temperature	-10 to +40 °C

(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.

(3) One σ @ 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.

Package includes.

Hardware:

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

Software:

YellowScan CloudStation Essential & SBG Qinertia

Services:

- 1-year warranty & in-person or online training
- Boresight calibration certificate

+ Optional:

- > Stand-alone mounting bracket
- Warranty and technical support extensions
- CloudStation Pro: refine and improve your data quality, with more export options

Dimensional drawings.

i Dimensions expressed in millimeters



