

NEW GENERATION

YellowScan Surveyor Ultra.

Lightweight 360° LiDAR System for UAV integration

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.

All specifications are preliminary and are subject to change without notice.



Technologies inside







Key differentiators

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



Integrations

- Single rotor UAV
- Multirotor UAV
- VTOL UAV
- Fly & Drive

360° x 40.3°

12-25 Vdc

Size L 153 x W 113 x H 117 mm

Max. Power Consumption 20 W alone, 36W with accessories

(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.

Max. Data Generated (4)

Scanner FOV

Power Range

(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.

Technical specifications.

Hesai XT32M2X

SBG Quanta Micro

80m

100m

3 cm

2.5 cm

Up to 3

640k

Global Shutter 2MP (for Colorization purposes)

/ Hardware:

Scanner

GNSS Inertial Solution

Laser Range @10% target reflectivity

Integrated Camera

Recommended AGL

Precision (1)(3)

Accuracy (2)(3)

Echoes per Shot

Shots per Second

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

Software:

YellowScan CloudStation & SBG Qinertia

Services:

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

+ Optional:

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

Dimensional drawings.

i Dimensions expressed in millimeters





