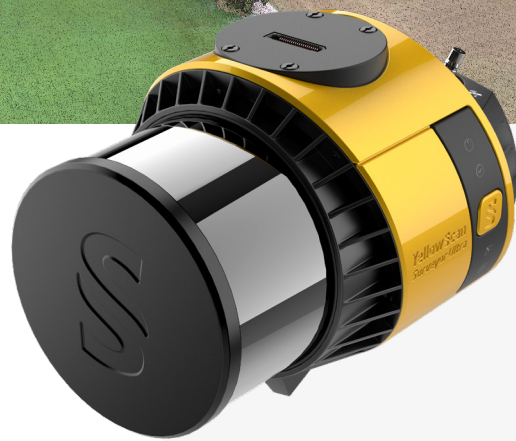


YellowScan Surveyor Ultra.

**Affordability. Flexibility.
Productivity.**

With its 360° field of view, the YellowScan Surveyor Ultra answers vertical mapping and mobile mapping needs when combined with Fly&Drive. Expect unparalleled vegetation penetration thanks to this system's 32 laser beams.



Technologies inside

 SBG SYSTEMS

 HESAI



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°

(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.

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	1.2 hour typ.
Power consumption	20 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.

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.

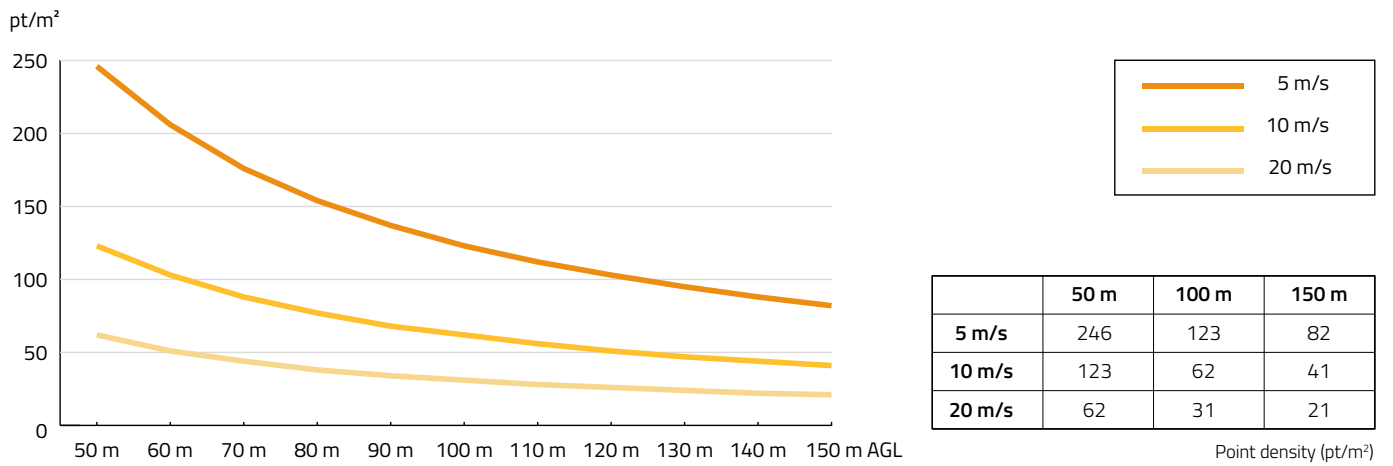
+ Optional accessories and enhancements :

- ▶ 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.

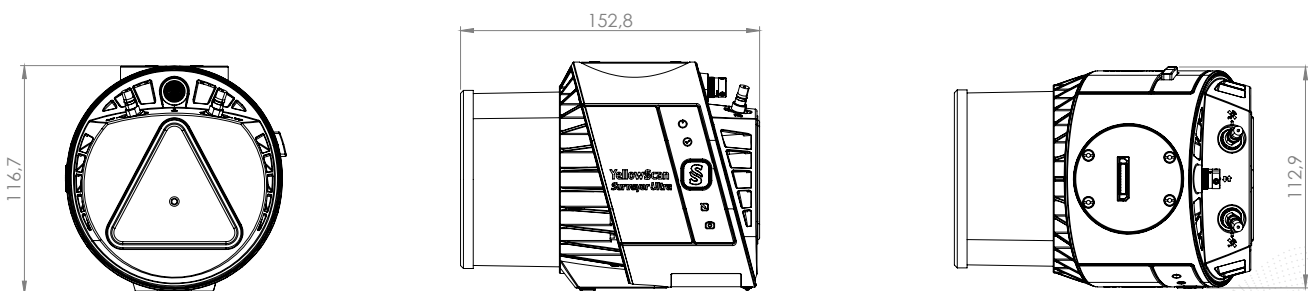


Typical mission parameters.



Dimensional drawings.

ⓘ Dimensions expressed in millimeters

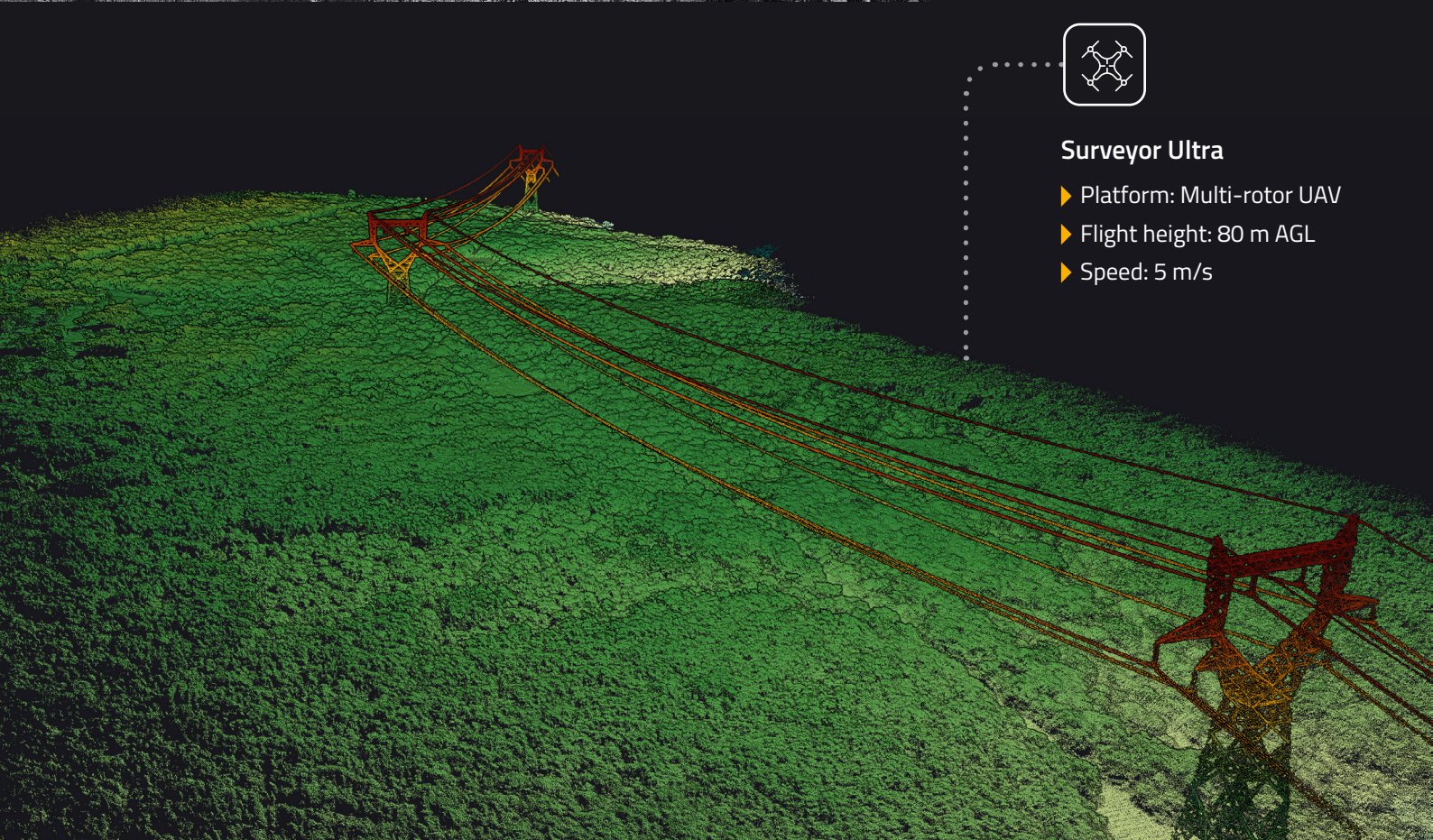


Typical point cloud snapshots.



Surveyor Ultra

- ▶ Platform: Multi-rotor UAV
- ▶ Flight height: 80 m AGL
- ▶ Speed: 5 m/s



Surveyor Ultra

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