

Long-range, multi-platform 360° LiDAR solution

The YellowScan Explorer is equipped with a lightweight and powerful long-range laser scanner that can be mounted on various UAVs. It is also capable of surveying from manned aircraft, resulting in higher productivity.

This versality allows users to tackle a wide range of projects with the proven ease-of-use of YellowScan's UAV LiDAR solutions.



> — Key differentiators

- > 360° Surveying & Mapping
- Powerful & Lightweight
- Long operational range



- Single rotor UAV
- Multirotor & VTOL UAV
- Light Crewed Aircrafts
- Fly & Drive

2024 YellowScan - Technical specifications are subject to change without further notice.

Technical specifications.

Laser scanner	YellowScan development
GNSS inertial solution	SBG Quanta Micro
Precision (1)	2 cm
Accuracy (2)	2 cm
Typ. flight speed	10 m/s
Typ. flying height	120 m
Max. rec. flying height	200 m
Point density	50 pts/sqm @ 100m AGL 10 m/s
Laser range	Up to 300 m
Laser wavelength	1556 nm
Scanner field-of-view	360°

2 500 000 points/sec
Up to 5
Up to 500 000
Up to 165 Hz (selectable)
Built-in 2MP global shutter
1.8 kg (4.0 lbs) batt. excl.
L 270 x W 118 x H 135 mm
1 hour typ.
55 W
-10 to +40 °C

⁽¹⁾ Precision, also called reproducibility or repeatability, accounts for the variation in successive measurements taken on the same target.

Package includes.

✓ Hardware:

- YellowScan Explorer
- 2 x 2 Batteries (hotswappable)
- Rugged pelicase
- UAV GNSS antenna and cable
- 2 USB flash drives
- Documentation

Software:

YellowScan CloudStation Essential & SBG Qinertia

Services:

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

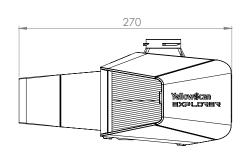
+ Optional:

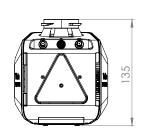
- Stand-alone mounting bracket
- Single- or Dual-camera modules (RGB)
- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software & 2 radio-modems)
- CloudStation Pro: refine and improve your data quality, with more export options
- Warranty and technical support extensions

Dimensional drawings.

i) Dimensions expressed in millimeters







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

⁽³⁾ Theoretical maximum of points with all shots yielding the maximum number of echoes. May vary depending on flight and survey conditions, and surveyed environment.