



NEW GENERATION

YellowScan Explorer.

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

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



Technologies inside

 SBG SYSTEMS

 YellowScan



Key differentiators

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



Integrations

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

Technical specifications.

| | |
|--------------------------|--|
| Wavelength | 1556 nm |
| GNSS Inertial Solution | SBG Quanta Micro |
| Integrated Camera | Global Shutter 2MP (for Colorization purposes) |
| Laser Range | 300 m |
| Recommended AGL | 120 m |
| Precision ⁽¹⁾ | 2 cm |
| Accuracy ⁽²⁾ | 2 cm |
| Scanner FOV | 360° |
| Shots per Second | Up to 500k |

| | |
|------------------------------------|-----------------------------|
| Echoes per Shot | Up to 5 |
| Max. Data Generated ⁽³⁾ | 2 500 000 points/sec |
| Weight | 1.80 kg (without batteries) |
| Size | L 270 x W 118 x H 135 mm |
| Power Range | 12-24 Vdc |

(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) 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 Explorer
- ▶ 2 x 2 Batteries (*hotswappable*)
- ▶ 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.

ⓘ Dimensions expressed in millimeters

