



## Long-range, multi-platform 360° LiDAR solution

Explorer.

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.



### Technologies inside



**Yellow**Scan



### Key differentiators

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



## **Integrations**

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

# 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°

Max. data generated (3)	2 500 000 points/sec
Echoes per shot	Up to 5
Shots per second	Up to 500 000
Scanning frequency	Up to 165 Hz (selectable)
RGB camera	Built-in 2MP global shutter
Weight	1.8 kg (4.0 lbs) batt. excl.
Size	L 270 x W 118 x H 135 mm
Autonomy	1 hour typ.
Power consumption	55 W
Operating temperature	-10 to +40 °C

<sup>(1)</sup> 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

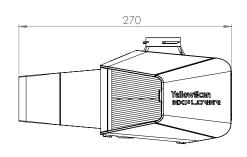
### + Optional:

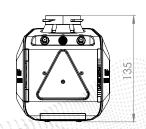
- Stand-alone mounting bracket
- > Single- or Dual-camera modules (RGB)
- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software & 2 radio-modems)
- CloudStation Pro: refine and improve your data quality, with more export options
- Warranty and technical support extensions

## Dimensional drawings.









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

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