

# 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 versality 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







### **Key differentiators**

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



# Integrations

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

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

<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 & SBG Qinertia

#### Services:

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

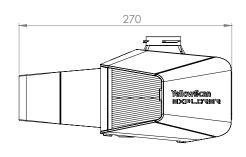
#### + Optional:

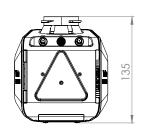
- Stand-alone mounting bracket
- Single- or Dual-camera modules (RGB)
- YellowScan LiveStation: the real-time in-flight LiDAR monitoring kit (includes software & 2 radio-modems)
- CloudStation optional modules: Strip Adjustment / Terrain / Colorization
- Warranty and technical support extensions

# Dimensional drawings.

i) Dimensions expressed in millimeters







<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.