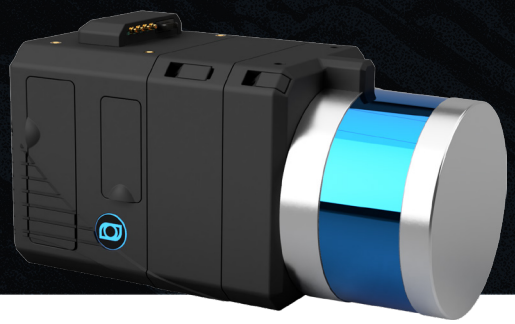
Connectiv

MODULAR LIDAR SYSTEM

Velodyne Configurations



Technical specifications

Scanner	Ultra Puck	Puck LITE
GNSS-Inertial solution	Applanix APX-15 UAV	Applanix APX-15 UAV
Recommended flight speed	10 m/s	5 m/s
Recommended altitude (AGL)	100 m	45 m
Accuracy[1]	5 cm	5 cm
Precision[2]	10 cm	4 cm
Pulse/Second	600 000 pts/sec.	300 000 pts/sec.
Echos (returns)	Up to 2	Up to 2
Wavelength	903 nm	905 nm
Scanner FOV	40° vertically 360° horizontally	30° vertically 360° horizontally

General specifications

Autonomy	60 min. typ.	60 min. typ.
Power consumption	10 - 25 W	10 - 25 W
Operating temperature	-15° to +40°C	-15° to +40°C
Dimensions	243 x 102 x 126 mm	229 x 102 x 126 mm
Weight including battery[3] (approx.)	2059 g	1759 g
Weight excluding battery (approx.)	1829 g	1529 g

[1] Vertical RMSE. Represents the degree of conformity to ground control points.
[2] Vertical precision. Represents the repeatability of measurements in a same flight line.
[3] The system may be configured to be powered directly by the drone.

Optional

- NEW **e-Connect** application allows to see the recording status of the modules in real- time.
- Additional laser modules available
  - Hesai
    - XT32
    - XT32/M2X
  - Riegl
    - miniVUX-1 UAV
    - miniVUX-3 UAV
- Additionnal camera modules available
  - Single and dual RGB cameras
  - Thermal cameras
  - Multispectral cameras
- Different INS modules available
  - Applanix APX-20 UAV *

Integrate different types of cameras including 24 MP and **still have a weight under 2,7 kg** to be mounted on a battery operated drone!

* Only available with Riegl laser modules.

Applications

Topography

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Structures

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Railroads