



scanfly LITE

LITE





www.scanfly.it

The payload lidar not only for UAS



Its design allows to install the device on **any vehicle**. **Easy to use** is the keyword of the product. Easy connection, easy configuration and easy usage. **Scanfly LITE** technical specifications are clear, simple and unique. Scanfly LITE is suitable for any application, depending on the vehicle on which it is mounted on: from a classic topographic survey to agro-forestry ones, not to mention its use for **Defence**, **Security** and **Monitoring** purposes.

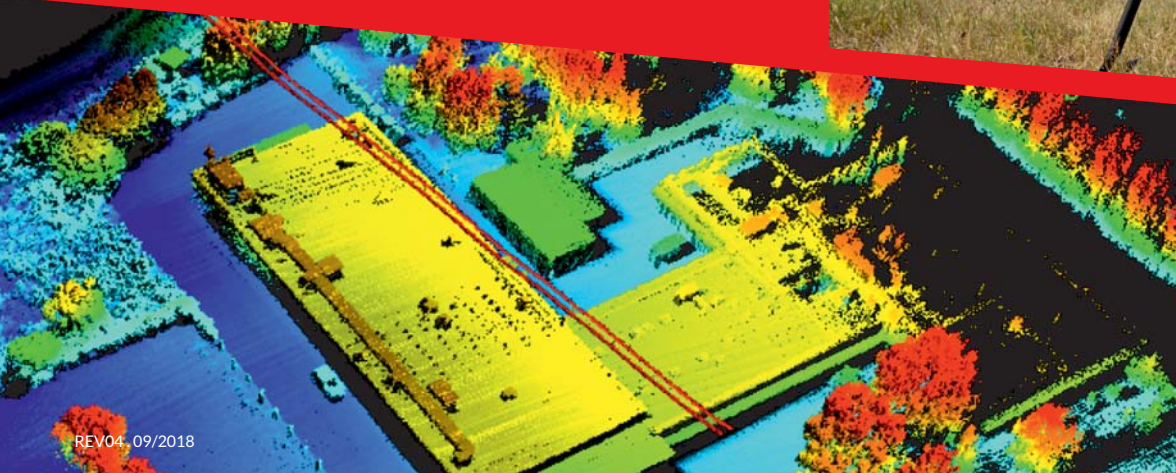
FEATURES

-  Scanner Velodyne VLP-16 LITE
-  Accurate INS (IMU/GNSS)
-  Double antenna double receiver RTK GPS/Glonass
-  Integrated board to control, acquire and synchronize sensors
-  Software: Smart Processing Lidar for data fusion
-  Carry case
-  Customized mounting interface
Easy installation on any vehicle
-  5-12 Mpx global shutter camera
Multisensor integration interface
External mirrorless camera integration
-  Boresight calibration tool
-  CE Marking
Ingress Protection IP55

MULTI PLATFORM SOLUTIONS



THE ULTRA COMPACT LIGHTWEIGHT SOLUTION FOR 3D LIDAR MAPPING.



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GENERAL

POWER SUPPLY VOLTAGE	12-24 VDC
POWER CONSUMPTION	< 40 W
OPERATING TEMPERATURE	- 10° + 40° C
QUICK RELEASE MOUNTING PLATE	Included
OPTIONAL MOUNTING KIT	Car / Backpack

LASER SCANNER

LASER CLASS	1 (wavelength 903 nm)
CHANNELS	16
RECOMMENDED AGL	15-70 m
ROTATION RATE	5-20 Hz
NUMBER OF RETURN	2
SCANNER ORIENTATION	User-adjustable (0°-30°-60°-90°) ③

INTEGRATED SENSOR

GNSS	
NUMBER OF RECEIVERS /ANTENNAS	2
CONSTELLATION	GPS / Glonass (optional) (L1/L2)
OPERATION MODE	RTK (optional) / PPK

IMU	
RATE	100 Hz – 250 Hz (optional)
ACCURACY	Roll/Pitch/Heading 0,05° ④

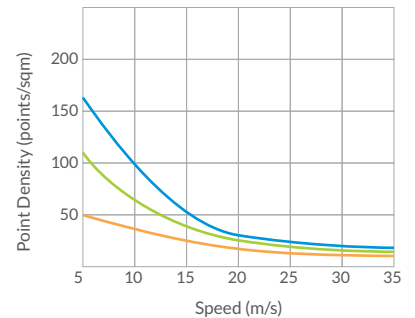
RGB CAMERAS (OPTIONAL)	
SENSOR	5-12 Mpx global shutter camera
NUMBER OF CAMERAS	1 or 2
EXTERNAL CAMERA	Integration of 3rd party mirrorless cameras ⑤

- ① With Velodyne VLP-16 Lite laser scanner and except for GNSS antennas, cables and quick release mounting plate.
- ② PPK performance with a minimum of 6 GPS satellites, HDOP<3, ground station not farther than 10 km.
- ③ Bore-sight calibration tool included.
- ④ Heading 0.05° with 4 m separation between the GNSS antennas.
- ⑤ Subject to compatibility check.

OVERVIEW

Weight: \approx 1.60 kg ①
 Dimensions:
 225 x 131 x 102 mm
 Certification: IP55 / CE
 Scan Rate: 600.000 pts/sec
 Range: up to 100 m
 Pointcloud Accuracy: 5 cm ②
 Precision: 4 cm
 Storage:
 Internal 24 GB /
 Up to 1 TB (optional)
 Interface Connection:
 Wi-Fi
 Ethernet
 Software:
 Scanfly Web-app
 Smart Processing Lidar
 Smart Survey Scanfly (opzionale)

Pointcloud Density

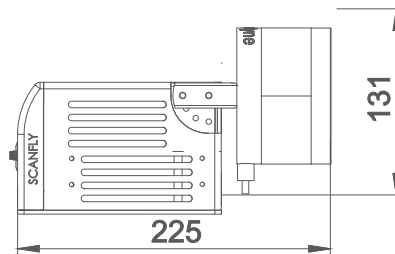
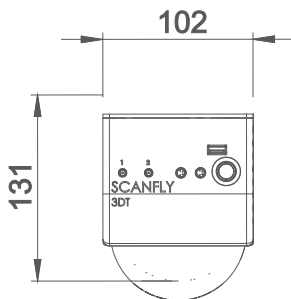


Range to Target
 — 40m
 — 60m
 — 100m



SCANFLY I Front View

SCANFLY I Side View



Values in millimeters

Values in millimeters

Dimensions, weight, technical features are subject to change at any time. Specifications are subject to change without notice.

