

www.scanfly.it

scanfly DUO

THE BRAND NEW,
EASY-TO-USE TECHNOLOGY
TO **CAPTURE REALITY!**

Designed to be operated in the field by a single operator, **Scanfly DUO** is the ideal tool for digitizing metropolitan areas and infrastructure assets. With the help of the **SLAM algorithm** and the **twin multi-channel LiDAR heads** the environment can be precisely modelled with reduced shadows and increased accuracy in GNSS-diminished areas.

REV1.0 - 09/2025

FEATURES



Dual Hesai PandarXT-32 LiDAR



Survey grade Applanix AP+ 30 (IMU/GNSS)



Multi-constellation RTK GNSS receiver



High resolution panoramic camera



Dedicated rooftop mount
Easy installation in any land vehicle



Carry case



CE Marking
Ingress Protection IP55



Powered by SmartProcessing Lidar



SLAM enabled



GCP and Strip Alignment tool



scanfly



On board



The world, digitally twinned

THE MOBILE MAPPING SOLUTION



GENERAL

POWER SUPPLY VOLTAGE	12-24 VDC
POWER	Vehicle power outlet Embedded battery ^①
POWER CONSUMPTION	< 65 W
OPERATING TEMPERATURE	- 10° + 50° C
QUICK RELEASE ROOFTOP MOUNT	Optional

LIDAR

NUMBER OF LIDAR HEADS	2 x 32 channels
LASER CLASS	1 (wavelength 905 nm)
TOTAL SCAN LINES	up to 1 280 per second
NUMBER OF RETURNS	2 (First-Strongest-Last)
RANGE ACCURACY	10 mm / 5 mm

INTEGRATED SENSORS

GNSS	
CHANNELS	772 (2x336)
CONSTELLATIONS	GPS/GLONASS/BeiDou/Galileo/QZSS/SBAS
L-MODE	Trimble CenterPoint RTX ^②
OPERATION MODE	PPK
DUAL ANTENNA	Supported

IMU	
DATA RATE	200 Hz (1 kHz internal rate)
ACCURACY	Roll/Pitch 0.01°/ Heading 0.025° ^③
DMI	Optional

IMAGERS	
360° PANORAMIC CAMERA	30 MP FLIR Ladybug5+ ^④ 72 MP FLIR Ladybug6 ^⑤

① Provides a backup to the vehicle power supply.

② Requires a dedicated subscription.

③ PPK performance with a minimum of 6 GPS satellites, HDOP<3, ground station not further than 10 km.

④ Model 3DT-SF-v3-DUO-30-5

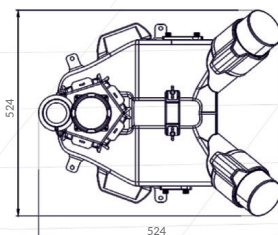
⑤ Model 3DT-SF-v3-DUO-30-6

⑥ In dual return mode.

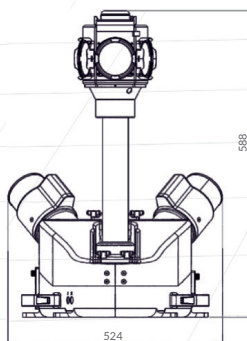
SCANFLY I Top View

SCANFLY I Front View

Dimensions, weight, technical features are subject to change without notice.



Values in millimeters



Values in millimeters

OVERVIEW

Weight: 16 kg ^④ / 18.2 kg ^⑤

Dimensions:

524 x 524 x 588 mm ^④

524 x 553 x 621 mm ^⑤

Scan Rate:

up to 2 560 000 points/s ^④

Range: from 0.05 m to 130 m

Accuracy: 2 cm ^③

Precision: 2 cm ^③

Storage:

Removable (Up to 2 TB)

Certification:

IP55 / CE

Interface Connection:

Wi-Fi

Ethernet

Software:

SmartProcessing Lidar

SmartSurvey (for Windows OS)

