

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.

REV6 - 06/2024

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



GENERAL

POWER SUPPLY VOLTAGE	12-24 VDC
POWER	Vehicle power outlet Embedded battery ^①
POWER CONSUMPTION	< 65 W
OPERATING TEMPERATURE	- 10° + 40° 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 (stronger + last)
RANGE ACCURACY/PRECISION	10 mm / 5 mm

INTEGRATED SENSORS

GNSS	
CHANNELS	2 x 336
CONSTELLATIONS	GPS/Glonass/Beidou/Galileo/QZSS/SBAS
L-MODE	Trimble CenterPoint RTX ^②
OPERATION MODE	PPK - RTK option
DUAL ANTENNA	Supported optionally

IMU

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

IMAGERS

360° PANORAMIC CAMERA	72 MP FLIR Ladybug 6 30 MP FLIR Ladybug 5+
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① Provides a backup to the vehicle power supply .

② Requires a dedicated subscription.

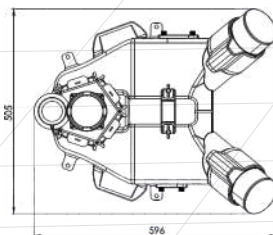
③ PPK performance with a minimum of 6 GPS satellites, HDOP<3, ground station not further than 10 km.

④ In dual return mode.

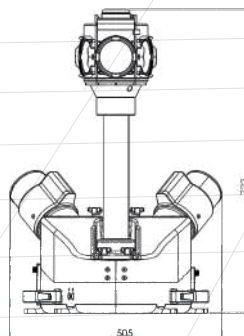
SCANFLY I Top View

SCANFLY I Front View

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



Values in millimeters



Values in millimeters

OVERVIEW

Weight: \approx 15 kg

Dimensions:
551 x 505 x 735.5 mm

Scan Rate:
up to 2 560 000 pulses/s^④

Range: up to 130 m

Accuracy: 2 cm^③

Precision: 2 cm^③

Storage:
Removable (Up to 4 TB)

Certification:
IP55 / CE

Interface Connection:
Wi-Fi
Ethernet

Software:
Scanfly WebApp
SmartProcessing Lidar
SmartSurvey



www.scanfly.it

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EVO

Unveiling the **Scanfly EVO**, the 3DT's entry-level LiDAR **mobile mapping** solution. Building on a legacy that began in 2016, the EVO stands as the definitive **multi-platform** tool. Whether walking, driving, or flying, enjoy a seamless, tool-less, and **cable-free** experience. Ensure unparalleled value with every survey.

Experience the EVolution - Map effortlessly with Scanfly EVO!

REV 02 - 12.12.2023



Lidar: Hesai PandarXT-32



INS: Applanix APX-15L



Multi-platform
Tool-less mounting accessories
Cable free design



Carry case



Multi-sensor interface
24-61 MP Sony cameras
60.5 MP 360° panoramic camera



SmartProcessing Lidar software
SLAM enabled
GCP and Strip Alignment tool
Image blurring tool



CE Marking
Ingress Protection IP55



scanfly
EVO

The world, digitally twinned

THE MULTI-PLATFORM MAPPER



On board



Backpack



Flying



LIDAR

LASER CLASS	Class 1 eye safe (wavelength 905 nm)
CHANNELS	32
ROTATION RATE	5-20 Hz
NUMBER OF RETURNS	2
RANGE ACCURACY	10 mm

INS

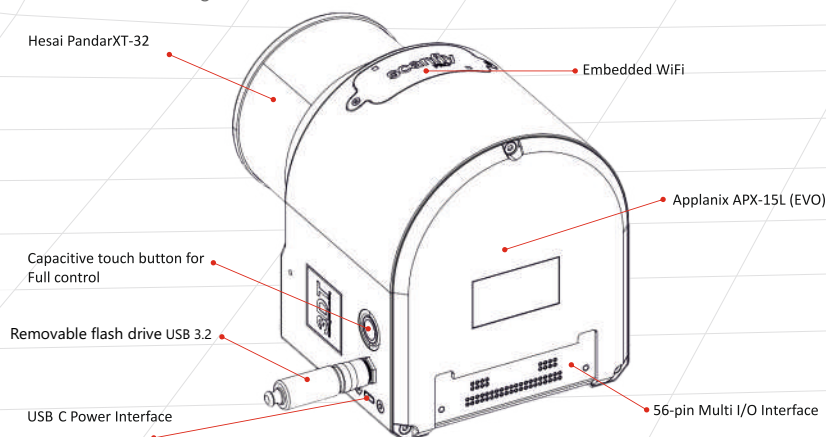
GNSS	
CHANNELS	336
CONSTELLATIONS	GPS/Glonass/Beidou/Galileo/QZSS/SBAS
OPERATION MODE	PPK – RTK (optional)

IMU	
DATA RATE	200 Hz (1 kHz internal rate)
ACCURACY	Roll/Pitch 0.025°/ Heading 0.08° ①

GENERAL

INTEGRATION INTERFACE I/O	56 - pin receptacle Ethernet, USB, Sensor power, Camera trigger/strobe, GNSS
Wi-Fi	Embedded
STORAGE	External USB 3.2 Flash Drive, up to 256 GB
BUTTON	Capacitive touch button
MOUNTING KITS ②	3DT-SF-v3-SKY - DJI Skyport adapter 3DT-SF-v3-LMK – Land vehicles and backpack mount 3DT-SF-v3-INT – General purpose integration kit
RGB CAMERAS SUPPORTED ②	24-62 MP Sony cameras 60.5 MP NCTech iStar Pulsar + panoramic camera
OPERATING TEMPERATURE	- 10° + 40° C
POWER SUPPLY	12-24 V max 30 W (typical)

- ① PPK performance in open-sky GNSS environment.
 ② Not included, available separately.
 ③ RMS 1 σ , measured at 50 m distance.
 ④ When installed in a 3DT mounting kit.

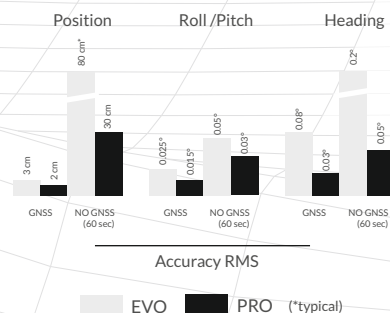


All features, functionality and other product specifications are subject to change without notice or obligation.

OVERVIEW

Weight: **1.6 kg**
 Dimensions: **181 x 133 x 142 cm**
 Scan Rate: **up to 1 280 000 points/s**
 Maximum range: **130 m**
 Recommended AGL: **15-85 m**
 Precision: **3 cm** ①③
 Accuracy: **3 cm** ①③
 Certification: **IP55 / CE** ④
 Control methods:
Capacitive touch button
Scanfly WebApp
SmartSurvey (for Windows OS) ②
 Post-processing:
SmartProcessing Lidar ②

COMPARISON



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PRO

Introducing the **Scanfly PRO**, the 3DT's compact **high-performance** mapper. Engineered for **excellence**, this **multi-platform** LiDAR solution performs with no compromises even in the most **challenging GNSS conditions**, from tunnels to dense urban canyons. When unprecedented **accuracy** meets the unmatched versatility.

Redefine mapping: anytime, anywhere with ScanflyPRO!

REV 02 - 12.12.2023



Lidar: Hesai XT32M2X



INS: Applanix AP+ 20
Dual GNSS Receiver enabled



Multi-platform
Tool-less mounting accessories
Cable free design



Carry case



Multi-sensor interface
24-61 MP Sony cameras
60.5 MP 360° panoramic camera



SmartProcessing Lidar software
SLAM enabled
GCP and Strip Alignment tool
Image blurring tool



CE Marking
Ingress Protection IP55



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PRO

The world, digitally twinned

THE MULTI-PLATFORM MAPPER



On board



Backpack



Flying

scanfly

PRO



LIDAR

LASER CLASS	Class 1 eye safe (wavelength 905 nm)
CHANNELS	32
ROTATION RATE	5-20 Hz
NUMBER OF RETURNS	3
RANGE ACCURACY	10 mm

INS

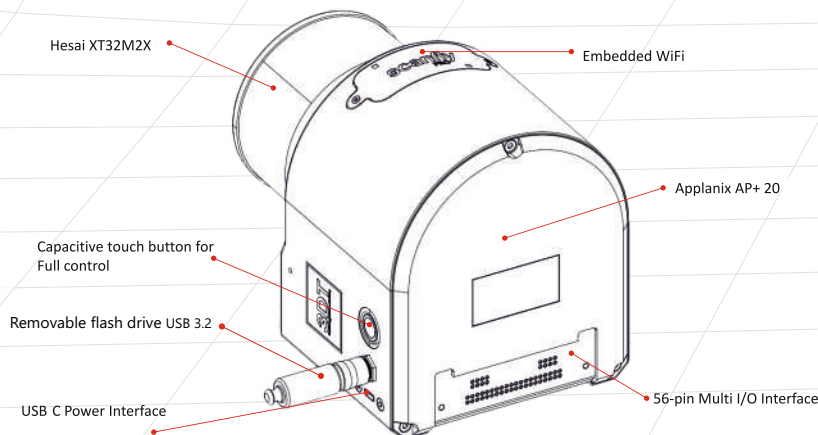
GNSS	
CHANNELS	2 x 336
CONSTELLATIONS	GPS/Glonass/Beidou/Galileo/QZSS/SBAS
OPERATION MODE	PPK – RTK (optional)

IMU	
DATA RATE	200 Hz (1 kHz internal rate)
ACCURACY	Roll/Pitch 0.015° / Heading 0.03° ①

GENERAL

INTEGRATION INTERFACE I/O	56 - pin receptacle Ethernet, USB, Sensor power, Camera trigger/strobe, GNSS
Wi-Fi	Embedded
STORAGE	External USB 3.2 Flash Drive, up to 256 GB
BUTTON	Capacitive touch button
MOUNTING KITS ②	3DT-SF-v3-SKY - DJI Skyport adapter 3DT-SF-v3-LMK - Land vehicles and backpack mount 3DT-SF-v3-INT - General purpose integration kit
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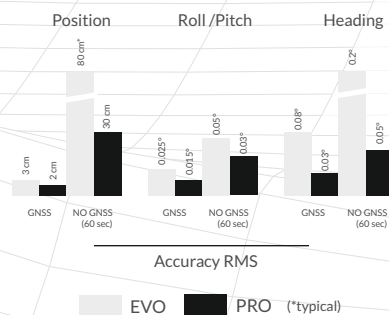


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OVERVIEW

Weight: 1.4 kg
 Dimensions: 180 x 133 x 142 cm
 Scan Rate: up to 1 920 000 points/s
 Maximum range: 300 m
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 Precision: 2 cm ①③
 Accuracy: 2 cm ①③
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On board



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