

# scanfly

## ULTRA X

### THE LONG-RANGE MAPPING SYSTEM WITH NO COMPROMISES

Based on the **Hesai XT32M2X**, Scanfly **ULTRA X** introduces the **triple returns** and extends the range up to **300 m** on its 32 profiles, making it the perfect **mapping machine**. With a weight contained at 1.49 kg, Scanfly **ULTRA X** is the perfect choice to **increase productivity** when mapping with a drone.

REV11.05/2022

## FEATURES



Hesai PandarXT32M2X Lidar



Accurate INS (IMU/GNSS)



Single multiconstellation RTK receiver



Integrated board to control, acquire and synchronize sensors



Software: SmartProcessing Lidar for data fusion



Carry case



Customized mounting interface  
Easy installation on any vehicle



24-42 MP RGB mirrorless camera  
Multisensor integration interface  
60.5 MP 360° panoramic camera



Boresight calibration tool  
GCP and Strip Alignment tool



CE Marking  
Ingress Protection IP55



scanfly  
ULTRA X

The payload lidar not only for UAS



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On board



Backpack



Flying

## MULTI-PLATFORM SOLUTIONS

# scanfly

## ULTRA X



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## GENERAL

POWER SUPPLY VOLTAGE	12-24 VDC
POWER CONSUMPTION	< 30 W
OPERATING TEMPERATURE	- 10° + 40° C
QUICK RELEASE MOUNTING PLATE	Included
OPTIONAL MOUNTING KIT	Drone / Car / Backpack

## LIDAR

LASER CLASS	1 (wavelength 905 nm)
CHANNELS	32
RECOMMENDED AGL	15-140 m
ROTATION RATE	5-20 Hz
NUMBER OF RETURNS	3
RANGE ACCURACY	10 mm
SCANNER ORIENTATION	User-adjustable (0°-30°-60°-90°) ③

## INTEGRATED SENSORS

GNSS	
CHANNELS	336
CONSTELLATIONS	GPS/Glonass/Beidou/Galileo/QZSS/SBAS
L-MODE	Trimble CenterPoint RTX ④
OPERATION MODE	PPK - RTK option

### IMU

DATA RATE	200 Hz (1 kHz internal rate)
ACCURACY	Roll/Pitch 0.025°/ Heading 0.08° ②

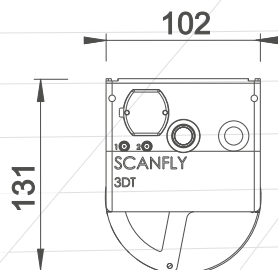
### RGB CAMERAS (OPTIONAL)

MIRRORLESS CAMERAS	24-42 MP RGB camera ④
NUMBER OF CAMERAS	up to 2
360° PANORAMIC CAMERA	60.5 MP 360° RGB camera ⑤

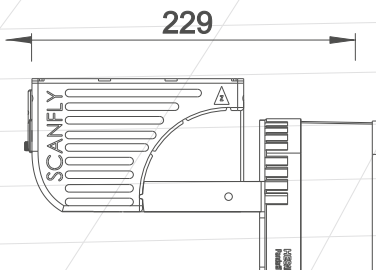
- ① With Hesai PandarXT-16 Lidar and without GNSS antennas, cables and quick mount adapter.  
 ② PPK performance with a minimum of 6 GPS satellites, HDOP<3, ground station not further than 10 km.  
 ③ Boresight calibration tool included.  
 ④ ADTi SURVEYOR LITE 24S (24 MP) with 12 mm (89° FOV) or 16 mm (73° FOV) or ADTi SURVEYOR 42 PRO (42 MP) with 21 mm (81° FOV) lens.  
 ⑤ NCTech iSTAR Pulsar+.  
 ⑥ Requires subscription.

SCANFLY I Front View

SCANFLY I Side View



Values in millimeters



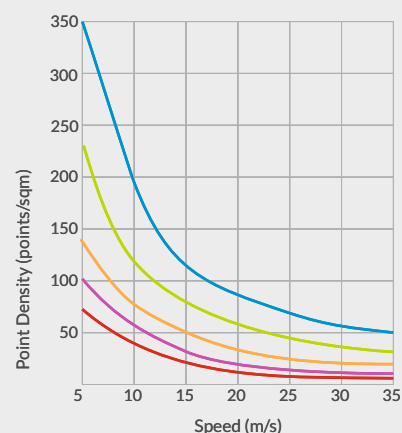
Values in millimeters

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

## OVERVIEW

Weight:  $\approx$  1.48 kg ①  
 Dimensions:  
 229 x 131 x 102 mm  
 Certification: IP55 / CE  
 Scan Rate: up to 1 920 000 pts/s  
 Range: up to 300 m  
 Accuracy: 5 cm ②  
 Precision: 3 cm  
 Storage:  
 Internal 500 GB /  
 1 TB (upgradable)  
 Interface Connection:  
 Wi-Fi  
 Ethernet  
 Software:  
 Scanfly Web-app  
 SmartProcessing Lidar  
 Smart Survey Scanfly (optional)

### Point cloud Density



Range to Target — 40m — 60m — 100m — 140m — 180m



**3DT**  
 Technology meets efficiency

**scanfly**



On board



Backpack



Flying