

# TOPODRONE 100+

## LiDAR

Sensor model	Hesai XT32
Accuracy	3-5 cm
Weight	1 kg
Temperature Range	up -20°C to +60°C
Working Range	120 m
Working Flight Altitude	100 m
Number of Lines	32
Horizontal FoV	360°
Vertical FoV	31°
Single Return Mode	640 000 Hz
Dual Return Mode	1 280 000 Hz

## IMU

Operating Frequency	200 Hz
Accuracy Heading	0,07 °, 1 $\sigma$
Accuracy Pitch	0,01 °, 1 $\sigma$
Accuracy Roll	0,01 °, 1 $\sigma$

## PPK

Frequency	10 Hz
Number of Channels	184
Accuracy	3-5 cm
GPS	L1C/A, L2C
GLONASS	L1OF, L2OF
BeiDou	B1I, B2I
Galileo	E1B/C, E5b
SBAS	L1C/A
QZSS	L1C/A, L1S, L2C

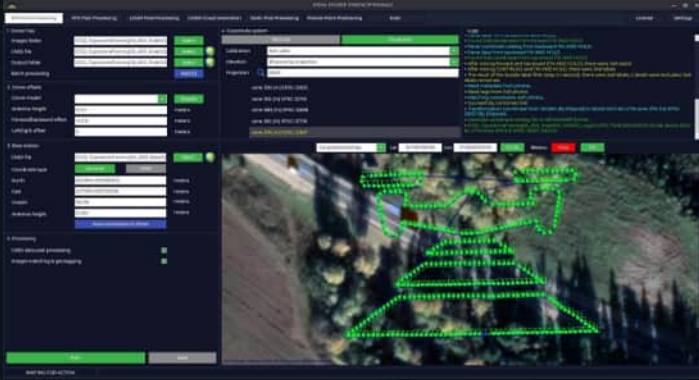


## Affordability

The most affordable LiDAR solution in terms of price

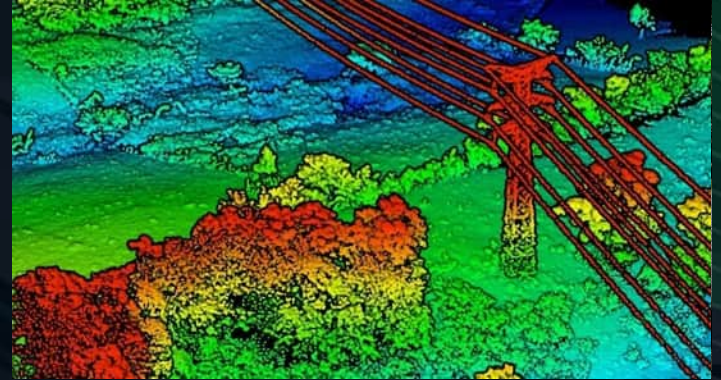
## Post Processing Software

Software for automatic post-processing the trajectory and the dense point cloud generation in any coordinate systems



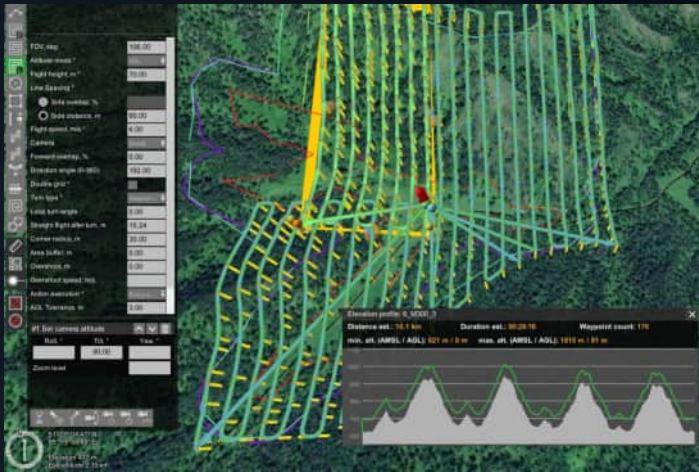
## High precision

Highly accurate dense point cloud due to precise IMU and the TOPODRONE PPK GNSS receiver built into the LiDAR



## Autonomy

Full autonomous operation with the ability to install on any drone, including DJI Matrice 200/210 V2 and DJI Matrice 300 RTK



## Mobility

Can be installed not only on the drone, but also on a backpack and car



## SLAM

Capable to receive accurate data even with poor GNSS signal when surveying under bridges and tunnels

