



TOPODRONE
AFFORDABLE ACCURACY



TOPODRONE L100P

- 3-in-1 LiDAR for the drone, car and backpack
- Built-in 24 Mp RGB camera for photogrammetry
- Changeable C-Mount 16, 24, 35, 50 mm lens
- Changeable multispectral lens up to 5 bands
- Built-in 16 Mp RGB cameras for colorizing
- Built-in IMU and GNSS modules
- Integration with DJI Matrice 350 RTK
- Dual-antenna mode support



The new TOPODRONE L100P laser scanner model allows to solve surveying tasks in various industries as a combined solution for airborne and mobile laser scanning, photogrammetry and multispectral mapping. The modern GNSS module with 1408 channels and dual antenna system provides unprecedented satellite signal quality. The latest IMU model allows to determine the sensor position angles in space with high accuracy, which significantly reduces the noise of the received dense point cloud. Easy data processing is provided by TOPODRONE Post Processing software for trajectory calculation, point cloud generation and data processing.

Specification

Common

Weight 1380 g
Dimensions 118x155x120

LiDAR System

Sensor type XT16M1X
Sensor weight 800 g
Recording data to internal memory Yes
Recording data to a flash card Yes
Built-in IMU Yes
Built-in GNSS module Yes
Built-in cameras Yes
Dual antenna mode support Yes
LiDAR Accuracy 3-5 cm

Laser Sensor

Working Range 100 m
Working Flight Altitude 70 m
Working Mobile Distance 70 m
Number of Lines 16
Horizontal FoV 360°
Vertical FoV 30°
Horizontal Resolution 0.09°
Vertical Resolution 2°
PPS 640000
PPS (Dual Return) 1280000
Refresh Rate 5-20 Hz
Laser Wavelength 905nm Class 1 eye safe

IMU

IMU Weight 35 g
Operating frequency 200 Hz
Heading accuracy (°, 1σ) 0.07
Pitch accuracy (°, 1σ) 0.01
Roll accuracy (°, 1σ) 0.01

GNSS Receiver

PPK mode Yes
Number of channels 1408
Frequency 20 Hz
Data Accuracy 3-5 cm
GPS L1C/A, L2C, L1C, L2P (Y), L5
GLONASS L1, L2, L3
BeiDou B1I, B2I, B3I, B1C, B2a, B2b
Galileo E1, E5b, E5a, E6
SBAS L1C/A
QZSS L1, L2, L5
Working without GCPs Yes

Main camera

Camera resolution 24 Mp
Changeable lens Yes
Sensor size 23,5 x 15,6 mm
Image resolution, pixels 6000 x 4000
ISO range 100-32000
16, 24, 35, 50 mm lens support Yes
Mount type C-Mount

Additional cameras

Camera resolution 16 Mp
FOV 120°
Number of cameras 2



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