

LD-100C+

UAV LiDAR Scanning System LD-100C+

Color Point Cloud with Highly Integrated [LiDAR Camera](#)



LD-100C+ LiDAR scanning system is a UAV measurement system independently developed by Geosun company. It highly integrates laser scanner, GNSS satellite positioning system, INS inertial navigation system and camera, and can quickly obtain high-precision laser point cloud number. It can be widely used in Digital city construction, Industry, Land survey, Forestry and Agriculture

System Parameter

Accuracy	≤10cm@110m
Weight	1036g
Working Temperature	-20°~+55°

Dimension	15.5*9.2*9.3cm
Storage	64 GB Maxsupport 128GB TF card
Carrying Platform	Multi Rotor/VTOL

Laser Unit

Measuring Range	190m@10%
Laser Class	905nm Class1 (IEC 60825-1:2014)
Laser Line Number	Equivalent to 64-beam

FOV	70°the circular view
Range Accuracy (1σ @ 20m)	2 cm
Data	Triple echo, 720,000 Points/Sec

POS Unit

Update Frequency	200HZ
Pitch /Roll Accuracy	0.015°
Heading Accuracy	0.040°

Position Accuracy	≤0.05m
GNSS SignalType	GPS L1/L2/L5, GLONASS L1/L2 BDS B1/B2/B3, GAL E1/E5a/E5b

Pre-Processing Software

POS Trajectory Software	Shuttle
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PointCloudSoftware	gAirHawk
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Camera

FOV	80°
Effective Pixel	24 MP
Focal Length (mm)	15



Operation Efficiency Table

Flight Height (m)	Accuracy
Single Flight Operation(km ²)	
50	≤5cm
0.08	
70	≤7cm
1.28	
100	≤10cm
1.92	

Mission Planning Software (optional)

Mission Planning Software WayPoint Master	Customized Rute Planning Software —
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Application Case



Model:LD-100C+
Flightspeed: 10m / s
Flight altitude: 80m
Application: Urban Construction
Project location:Malaysia

