# **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, IN S 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	Dimension	15.5*9.2*9.3cm
Weight	1036g	Storage	64 GB Maxsupport 128GB TF card
Working Temperature	-20°~[]55°	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 cirular 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	



POS[]Trajectory[] Software

PointCoudSoftware

qAirHawk

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



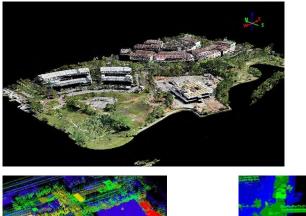
## **Operation Efficiency Table**

Flight Height (m)		Accuracy
Single Fligh	t Operation(km <sup>2</sup> )	
50		≤5cm
	0.08	
70		≤7cm
	1.28	
100		≤10cm
	1.92	

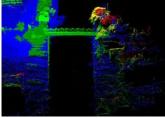
## **Mission Planning Software (optional)**

Mission Planning Software Customized Rute Planning Software — WayPoint Master

## Application Case







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



