#### SPECIFICATION

Scanner Performance				
Laser Pulse Repetition Rate (PRR)	600kHz	400kHz	300kHz	
Max.Measuring Range@ $\rho$ > 20% <sup>1)</sup>	250	350	450	
Max.Measuring Range@ $\rho > 80\%^{1)}$	300	450	600	
Typ. flying height	120m	200m	250m	
Measurement rate	max.800,000 pts/sec			
Scanning FOV	up to 360° <sup>2)</sup>			
Max. Number of return pulses Max.	12			
Measuring Range, natural targets $\rho$ > 80%	900m			
Measuring accuracy <sup>3)</sup>	15 mm (single)/ 10 mm (repeat)			
Laser safety class	Class 1 (IEC 60825-1:2014) eye-safe			
Laser wavelength	1550nm			
IMU & GNSS (Optional) <sup>5)</sup>				
IMU Accuracy	0.01° Roll/ Pitch 0.02° Heading			
IMU update rate	600HZ			
Position Accuracy	0.02m horizontal 0.04m vertical			
General				
Absolute accuracy	±5cm (H/V) <sup>4)</sup>			
Storage	256 G Flash Drive			
Dimensions	234mm x 112mm x 120mm (without camera)			
Weight	2kg			
Working temperature	-20°~ +55°			
IP rating	IP64			
Power consumption	40W			
<b>RGB Camera</b> (Optional) <sup>5)</sup>				
Resolution	26MP	45MP		
Focal length	16mm	18mm		
Sensor size	23.5*15.6mm	36*24 mn	36*24 mm(8192*5460)	
Pixel size	3.76um	4.4um		
FOV	73°	90°		
200 meters high resolution	4.7cm 4.9cm			

1)Typical values for average conditions.

2)Selectable. Consider limitations when integrated in kinemtatic systems
3)Accuracy is the degree of conformity of a measured quantity to its actual (true) value.
4)According to SOUTH test condition :150 m AGL with 8m/s speed.
5)Camera/IMU model is selectable

## SOUTH SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

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dealer info



# Powerful & Lightweight

SG130 is a multi-platform LiDAR system that combines high-resolution laser scanning and precise positional data to collect geo-referenced point cloud, which is particularly designed for geospatial survey scanning from air to ground.



# SG130 Long-range, multi-platform 360°

LiDAR solution





#### Introduce

SG130 is a new generation of multi-platform LiDAR launched by South Surveying & Mapping. It has a smaller volume and lighter weight. With a measurement range of 900 meters, it can easily handle large-scale mapping tasks in complex scenarios. The cable-free design and integrated slider design allow for quick switching between multiple platforms such as unmanned aerial vehicles and vehicles.

#### Advantages



#### Point cloud optimization



Orthophoto generation



Point cloud classification



### Software

AcuteLas studio is capable to process terrestrial scanner data, aerial lidar data, and it can process data in batches, that means several groups data can be imported at the same time and process together.



Import several flights data



Flight strips division



Several flights POS data processing



Serval flight data fusion

#### Platform

Refine laser, navigation and orientation data to obtain seamless point cloud, with or without GCPs



SOUTH Quadcopter SF1200



SOUTH VTOL UAV



While processing point cloud data, orthophotos can be generated.



SUV



DJI M300/M350 RTK



#### Applications



Energy & Utilities



Forestry



Archeology



Construction & Engineering







Railway