



The Leader In LiDAR Industry

GoldEye II 3D LiDAR Modeling System

2020.03 V1.0

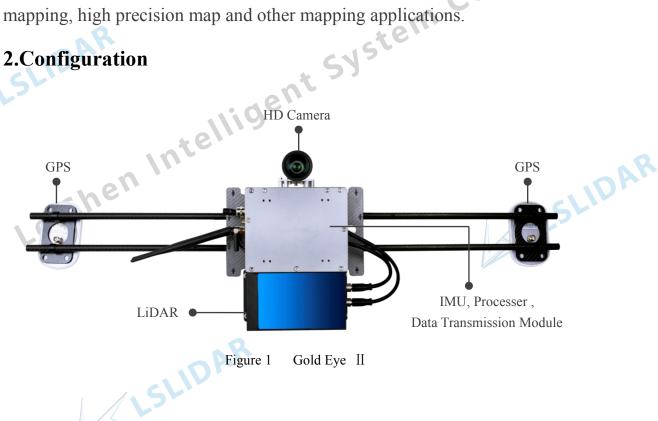


1.Brief Introduction

"GoldEve Π " is a high performance 3D LiDAR system developed by LeiShen Intelligence, which offer fast and easy 3D data collection or 3D image fusion information with high accuracy and high resolution.

"GoldEye II" is integrated by hybrid LiDAR (High density point cloud and the effective points cloud are equivalent to mechanical 64 lines Lidar), IMU (GNSS/INS), camera (option), processing unit and so on. It supports real-time 3D modeling or off-line 3D modeling, targeting for power inspection, disaster emergency response, forestry survey, topographic mapping, high precision map and other mapping applications.

2.Configuration



Gold Eye II

2.1Gold Evell Real-time System

scanning process, the system will measure environment's coordinates, distance & elevations and display the real-time 3D modeling with true color point could (option) at PC end. Besides, Pos parameters, Equipment status and other information are also shown at PC.

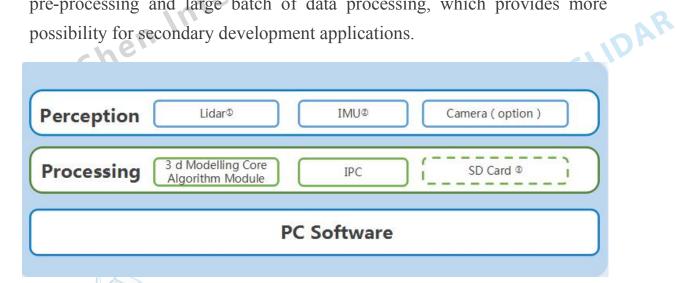
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erception	Lidar®		IMU®	Camera (option)
Processing	3 d Modelling Co		IPC	Transmission module ®
PC Softwa	re	Real time 3D	Mapping	

2.2 Gold Eyell Off-line System

During the scanning process, the system stores the data collected by LiDAR, camera and IMU into the processor unit, and later exports the data to the PC end or workstation for offline reading and processing. Compared with real-time modeling offline modeling can carry out multiple pre-processing and large batch of data processing, which provides more possibility for secondary development applications.



3. List

	Model	MS-CH32 905nm
	Safety	Class 1 (IEC60825-1:2014)
LiDAR	Max Range	200m at 20% Reflectivity
	Accuracy	±2cm
	Duel Returns	852k Points/Second



-				1000
		FOV	Horizontal	120°
			Vertical	-6.67~+4.58°
		Resolution	Horizontal	0.045°~ 0.18°
			Vertical	0.33°
		Working Temp		-40°C ~ 50°C
_		IP Rating		IP67
		Position		GPS L1/L2/L2C,GLONASS
		1 001011		L1/L2,BeiDou B1/B2
	IMU	Freq.		200Hz
		Positional Accuracy		2cm+1ppm (CEP) (RTK)
		Speed Accuracy		0.03 m/s (RMS, GNSS single
				is good condition)
		Course Angle Accuracy		0.1° (1σ, GNSS single is good
				condition, Base length≥2m)
		Attitude Angel Accuracy		0.1° (1σ, GNSS single is good
				condition)
		Working Temp		-40°C ~ 50°C
		CPU		Intel Core J1900
	IPC	Internal Storage Model		Intel Core J1900 DDR3L 4G
		Storage		128G
		Frequency Range		1.4Ghz
	Transmission module	Bandwidth		10Mhz
	(Real time system	Speed		30Mbps
	optional)	Transmission Distance		>3Km
		Working Temp		-20°C- 50°C
		Optical Zoom		15 times
	Camera	Dynamic Effective Pixels		300w above
	(Option)	Anti-shake		Optical physics
	1	Length of ler	ns	12.8-167mm
_		_	t Cloud Pre-treat	
	Software		rol and Analysis	
	Solivate			nalysis software
_		,		nalysis software

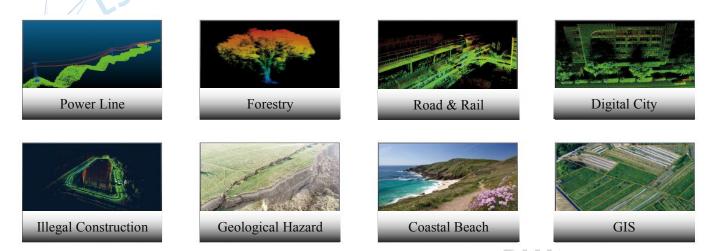
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4.Application



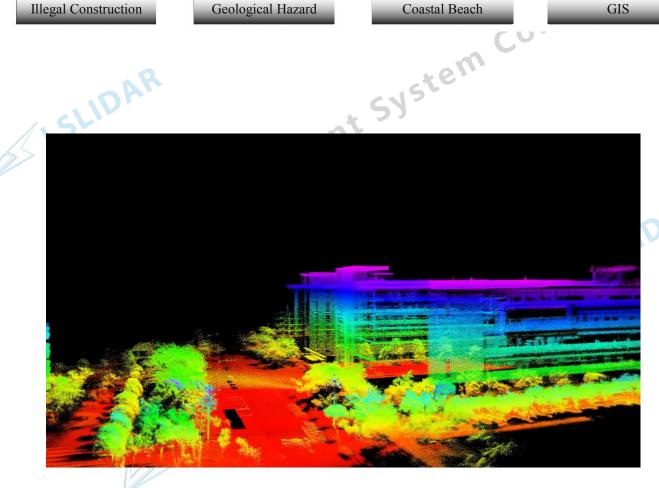


Figure 2 3D Modeling Real-time System (LiDAR)

LSLIDAR



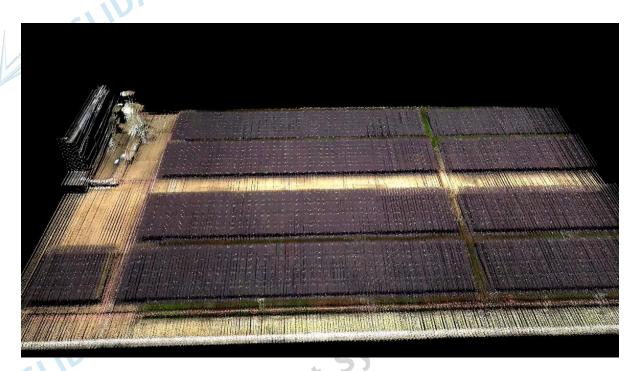


Figure 3

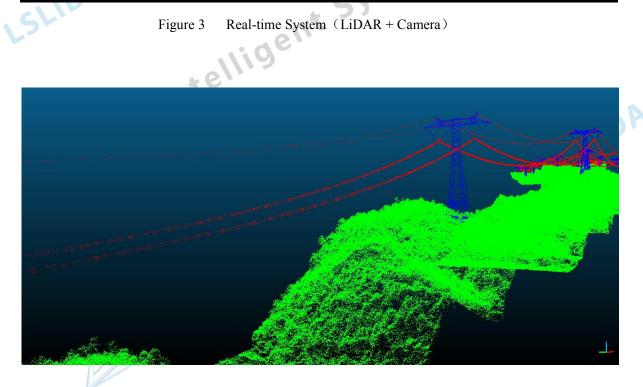


Figure 4 3D Modeling Offline System (LiDAR)

LSLIDAR