

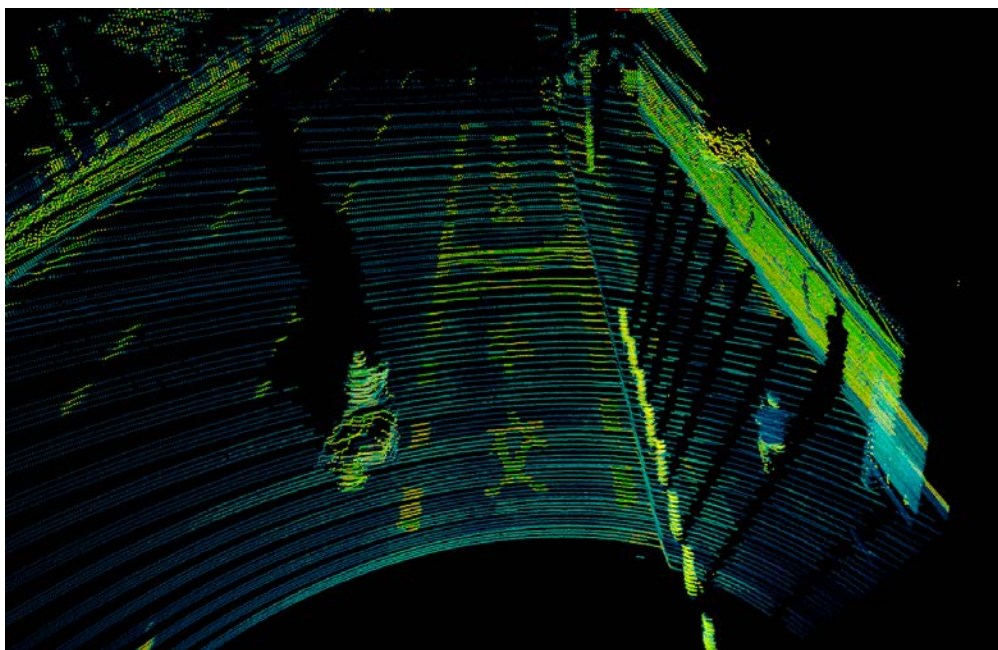
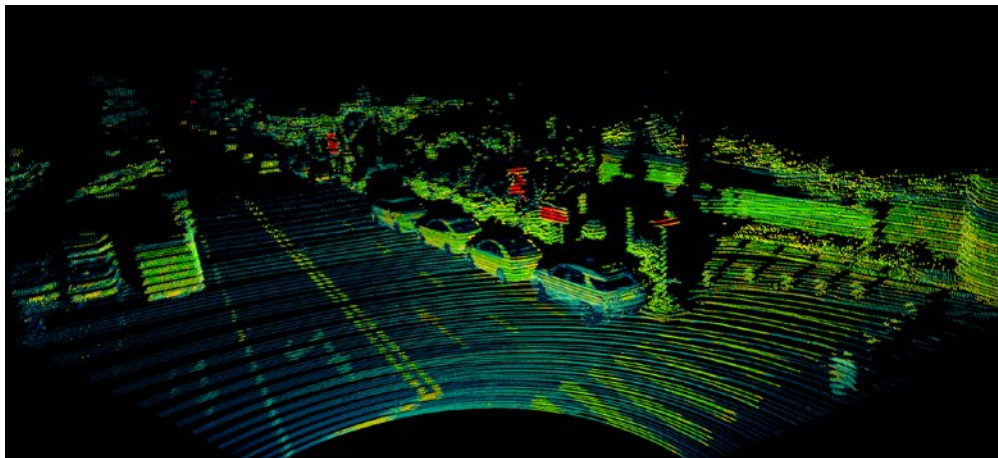
CH128X Hybrid-Solid State LiDAR



Abstract

CH128X is a new generation of Auto-Grade Multi-Lines Hybrid-Solid State LiDAR with cutting-edge technology in miniaturization, more adaptable to different vehicles. The parameters of this LiDAR, not only meets the perception in middle-long range, but also caters for the limited size of automotive. The height is only 75 mm and embedded solution is more suitable to the aesthetic needs of passenger car.

Demo



Parameters

Model	CH128X1	
Channel	128	
Measurement Technique	TOF	
Wavelength	905nm	
Classification	Class 1 (Eye-safe)	
Range	200m (160m@10%)	
Accuracy	±3cm	
Data Acquisition Rate	760,000 pts/s	
Rotation Rate	5 Hz, 10 Hz, 20 Hz, 25Hz (optional)	
FOV	Horizontal	120°
	Vertical	25°(-18°~7°)
Resolution	Horizontal	0.2°@10Hz
	Vertical	0.125°@ROI, 0.25°@Non-ROI
Operating Voltage	9V~36V DC	
Operating Temperature	-40°C ~85°C	
Communication Interface	Automotive Ethernet 1000Base-1	
Power Consumption	15W	
Shock Test	500m/sec ² , last 11ms	
Vibration	5Hz~2000Hz, 3G rms	
Function Safety Level	ISO26262 (ASIL B)	
IP	IP6K9K	
Weight	1kg	
Dimension (L* W * H)	118 * 90 *75 mm	