

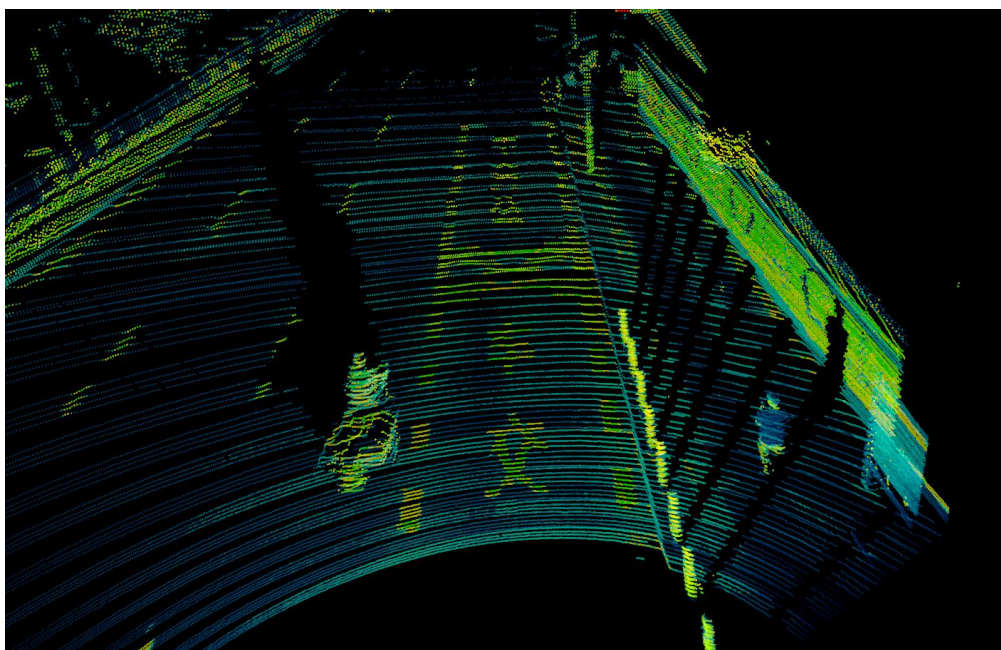
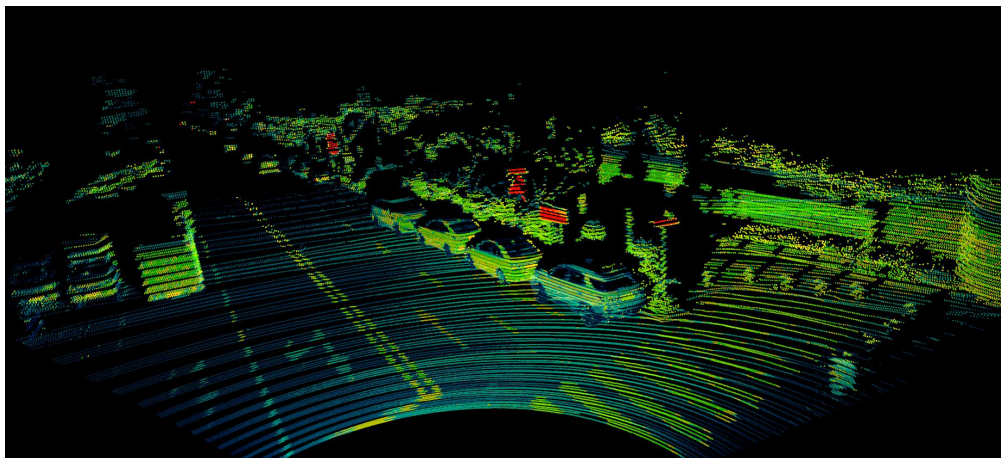
CH128X Hybrid-Solid State LiDAR



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