

IP	IP67
Weight	*
Size (L·W·H)	182*121*98mm

CH Series 64 Channel LiDAR (Hybrid Solid-State)



Abstract

The CH series 80 Channel LiDAR is designed for Autonomous vehicle and Automotive grade. It uses a hybrid solid-state structure. The detection range is up to 200 meters. The measurement accuracy is accurate to $\pm 2\text{cm}$. The horizontal field of view is 120° , The point rate is up to 426,000 points per second, which can bring more accurate environmental perception for autonomous driving.

Specifications

Model	CH64	
Channel	64	
Measurement Technique	TOF	
Wave Length	905 nm	
Laser Classification	Class 1 Eye-safe/ IEC 60825-1:2007 & 2014	
Measurement Range	100m / 150m / 200m	
Ranging Accuracy	$\pm 2\text{cm}$	
Data Points Generated	MAX 426,000 points per second	
Rotation Rate	5~20Hz	
Field of View(FOV)	Horizontal	120°
	Vertical	$-13.33^\circ \sim 8^\circ$
Angular Resolution	Horizontal	5Hz:0.09° / 10Hz:0.18° / 20Hz:0.36°
	Vertical	0.33° (Nonlinear distribution)
Operating Voltage	9V~36VDC	
Operating Temperature	$-20^\circ\text{C} \sim 65^\circ\text{C}$	
Communication Interface	100M Ethernet、PPS	

Power	10 W
Shock	500m/sec ² , Lasts 11ms
Vibration	5Hz-2000Hz , 3G rms
IP	IP67
Weight	1.5kg
Size (L-W-H)	155 * 107.5 * 90mm

CH Series 64 Channel LiDAR (Hybrid Solid-State)

--For Blind spot detection Large FOV



Abstract

The CH series 64-Channel large field of view LiDAR is a product designed for eliminating blind spots. It has an ultra-wide horizontal field of view of 160°, and two vertical field of view angles of 60° and 40°. The measurement accuracy is accurate to ±3cm. It can efficiently identify obstacles in the short range, and bring accurate environmental perception to the blind areas of vehicle, robots, and AGV.

Specifications

Model	CH64W	
Channel	64	
Measurement Technique	TOF	
Wave Length	905nm	
Laser Classification	Class 1 Eye-safe/ IEC 60825-1:2007 & 2014	
Measurement Range	100m	
Ranging Accuracy	±3cm	
Data Points Generated	MAX 568,000 points per second	
Rotation Rate	5~20Hz	
Field of View(FOV)	Horizon tal	160°
	Vertical	-30°~ 30° -20°~ 20°