

CH 64W Blind Spot Detection LiDAR



Abstract

CH64W is designed for blind area detection with large FOV. Its ultra wide horizontal field of view is $180^{\circ} \times 40^{\circ}$. The measurement accuracy is ± 3 cm which help cars, robots and AGV have excellent perception for blind areas.

Parameters

Model		CH64W
Channel		64
Measurement Technique		TOF
Wavelength		905nm
Laser Classification		Class 1 (Eye-safe)
Range		80m
Accuracy		± 3 cm
Data Points Generated		350,000 pts/s
Rotation Rate		10Hz, 20Hz (optional)
FOV	Horizontal	180°
	Vertical	$40^{\circ}(-25^{\circ} \sim 15^{\circ})$
Resolution	Horizontal	$0.36^{\circ}@10\text{Hz}$
	Vertical	$0.63^{\circ}@10\text{Hz}$
Operating Voltage		9V~36V DC
Operating Temperature		$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Communication Interface		Automotive Ethernet 1000Base-1
Shock Test		$500\text{m}/\text{sec}^2$, last11ms
Vibration		5Hz-2000Hz, 3G rms
Function Safety Level		ISO26262 (ASIL B)
IP		IP67
Dimension (L·W·H)		116 * 90 * 76 mm