

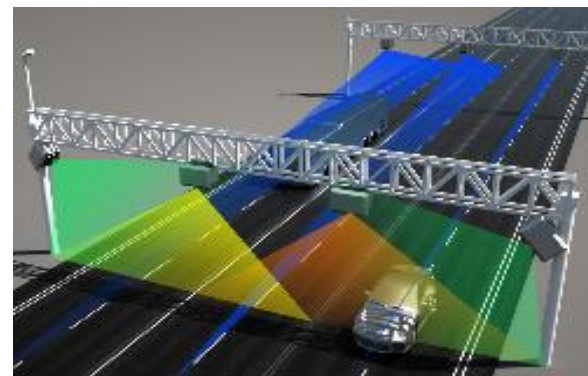
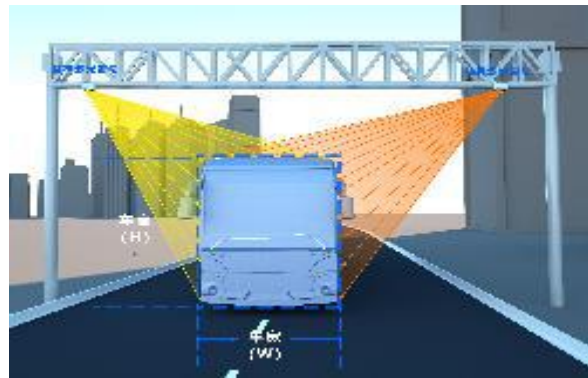
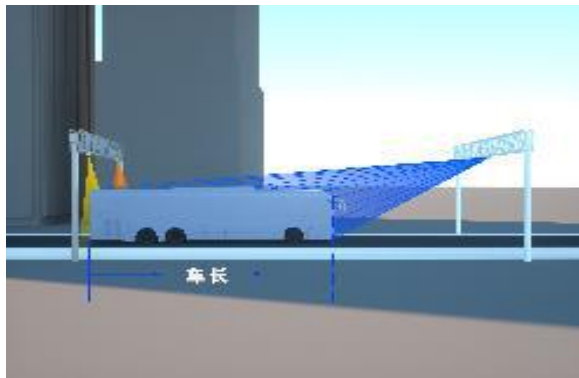
HS Series High-speed Scanning LiDAR



Abstract

HS series high-speed scanning LiDAR has excellent detection accuracy and anti-interference performance, Its measurement range is up to 100 m, and distance accuracy is $\pm 2\text{cm}$. 200Hz high scan frequency can easily sense high-speed movement objects in time, and accurately capture vehicle contour information. Widely used in vehicle detection ,V2X vehicle-road collaboration, high accuracy surveying and mapping, etc.

Demo



Specifications

Model		HS1	HS4	HS8
Channel		1	4	8
Measurement Technique		Time of Flight (TOF)		
Wavelength		905nm		
Laser Product Classification		Class 1 Eye-safe/ IEC 60825-1:2007 & 2014		
Measurement Range		100m (Reflectivity 10%)		
Ranging Accuracy		±2cm		
Data Points Generated		106,000 points per second	426,000 points per second	426,000 points per second
Rotation Rate		80Hz、120Hz 、160Hz		
Field of View (FOV)	Horizontal	120°		
	Vertical	/	-4°~ 0°	-6.66°~ 2.66°
Angular Resolution	Horizontal	80Hz: 0.09° 120Hz: 0.13° 160Hz: 0.18°		80Hz: 0.18° 120Hz: 0.27° 160Hz: 0.36°
	Vertical	/	1.33°	
Operating Voltage		9V~ 36VDC		
Communication Interface		1000M Ethernet , PPS		
Operating Temperature		-40°C ~ 85°C		
Shock Test		500m/sec ² , last11ms		
Vibration		5Hz-2000Hz , 3G rms		
IP		IP 67		
Dimension (D·H)		155 * 107.5 * 90mm		
Weight		1600g		