VANJEE LiDAR

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Automotive-Grade Rotating Mirror LiDAR WLR-740

Description

VanJee WLR-740 LiDAR is a self-developed ultra-high resolution(144 Lines), long-range (200m@10%) automotive-grade LiDAR product by VanJee Technology. The LiDAR employs rotating-mirror scanning architecture and is designed to automotive industry standards, unlocking the utmost safety and autonomy for ADAS and autonomous vehicles.

Advantages

Reliable Performance
Dual CPU design, stable motor performance

Powerful Ranging Performance
Ultra-wide FOV , image-like resolution, ultra-high point frequency

Interference Rejection
Unique laser coded design, Resistant to other LiDAR interference
Multi-return technology, noise filtering

Super Cost-Effective
Self-developed ASIC chips ensure super performance while effectively reducing costs

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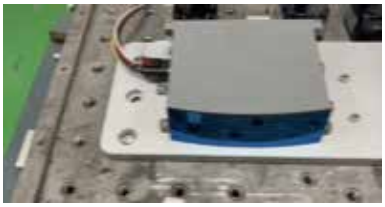
WLR-740 Parameters

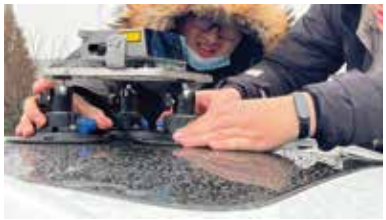
Basic Parameters			
Model	WLR-740	Operating Temperature	-40℃-85℃
Number of Channels	144	Scanning Principle	Rotating Mirror
Size	136mm×113mm×45mm	Laser Length	905nm
Operating Voltage	9-36VDC	Power Consumption	≤15W
Performance Parameters			
Scanning Frequency	10Hz/20Hz	Ranging Accuracy	±3cm@1σ
Operating Range	200m@10% Reflectivity	Ranging Precision	±5cm
Horizontal FOV	120°	Horizontal Resolution	0.1°(10Hz) / 0.2°(20Hz)
Vertical FOV	25°	Vertical Resolution	0.2°
Point Frequency	1,728,000pts/s (Single Return) ; 3,456,000pts/s (Double Return)	Blind Zone	1m@10% Reflectivity
Relevant Certification			
Ingress Protection	IP67,IP6K9K	Transport Protocol	UDP packets over Ethernet
Laser Safety	Class1 (Eye Safety)	Time Source	PTP/NTP/gPTP
Functional Safety	ASIL B	Communication Interface	Automotive Ethernet, 1000BASE-T1

WLR-740 Scenarios



DV Testing

Extreme Cold Test



Integration Testing