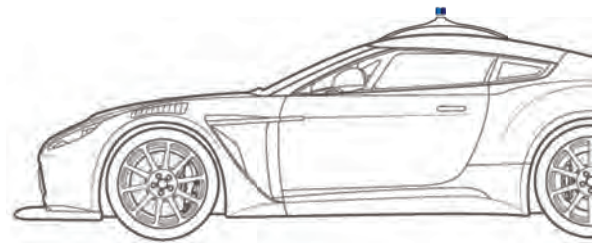




PandarQT

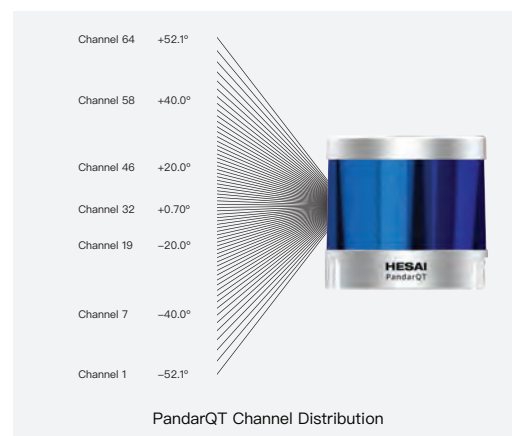
64-Channel Short-Range
Mechanical LiDAR



PandarQT

PandarQT, a 64-channel short-range mechanical LiDAR, is designed to solve several pain points in LiDAR applications:

1. Superior short-range performance: accurately detecting objects as near as 0.1 m, making an ideal blind spot solution
2. Ultra-wide FOV: 360° (H) x 104.2° (V) coverage
3. Versatility: 30-meter detection (of 20% reflectivity objects) proves useful for blind-spot obstacle avoidance in self-driving cars, as well as environment perception for low-speed logistics vehicles
4. Optimized resolution: down to 1.45° vertically and 0.6° horizontally
5. Interference rejection: proprietary technology ensuring undisturbed performance near other working LiDARs
6. PTP (Precision Time Protocol) support: sub- μ s time sync accuracy with simplified cabling



PandarQT has gone through stringent reliability tests, including HALT (highly accelerated life test), vibration strength test and mechanical resonance test, ensuring excellent and stable performance in harsh environments.

Advantages of PandarQT



Blind Spot Coverage



Wide Field of View



Optimized Resolution



Interference Rejection



Cost Saving



Light and Compact

Specifications

Sensor			
Operational Principle	Time of Flight	Frame Rate	10 Hz
Scanning Method	Mechanical Rotation	FOV (Vertical)	104.2° (−52.1° to +52.1°)
Channel	64	Resolution (Vertical)	Finest at 1.45° (with min. gap 0.15°)
Range	0.1 to 30 m (at 20% reflectivity)	FOV (Horizontal)	360°
Range Accuracy	±2 cm (typical)	Resolution (Horizontal)	0.6° (with 0.15° gap)
Returns	Single Return (First) Dual Return (First&Second)	Interference Rejection	Yes
		PTP Clock Drift	≤1 μs/s (typical)
Clock Source	PTP/GPS (GPS only available in 8-pin version)	PTP Clock Accuracy	≤1 μs
Output			
Data Outputs	Distance, Azimuth Angle, Background Illumination	Data Transmission	UDP/IP Ethernet (Automotive 100BASE-T1, Slave Mode)
Data Points Generated	Single Return Mode: 384,000 pts/s Dual Return Mode: 768,000 pts/s		

Mechanical/Electrical/Operational

Dimensions	Height: 76.0 mm Diameter: 80.2 mm		
Weight	0.47 kg	Operating Voltage	9 to 36 VDC
Power Consumption	8 W	Laser Class	Class 1 Eye Safe
Operating Temperature	-20°C to 65°C	Environmental Protection	IP67 & IP69K

Application Scenarios

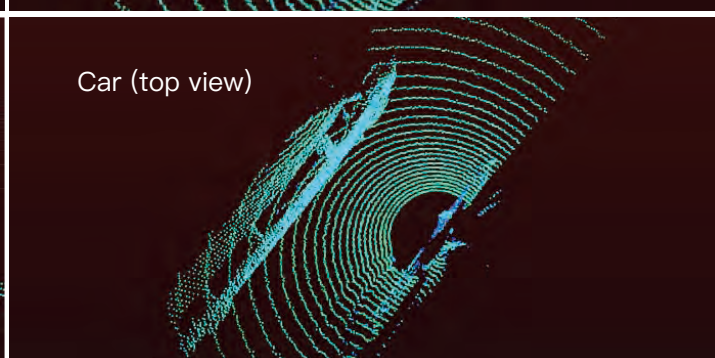
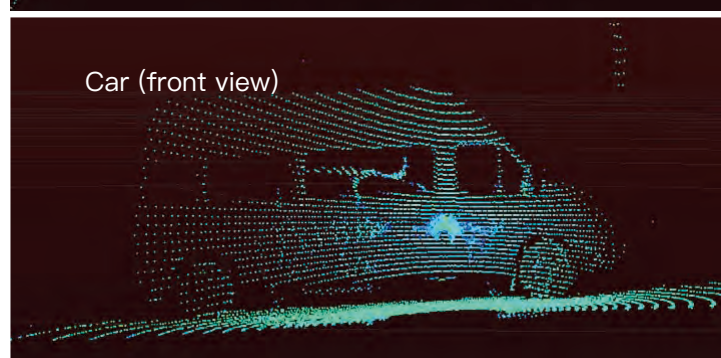
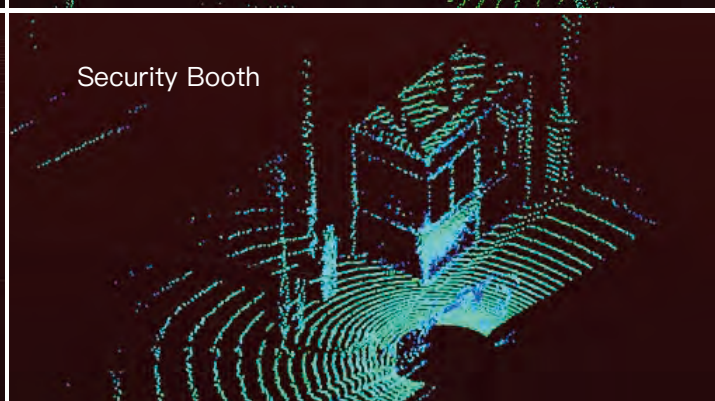
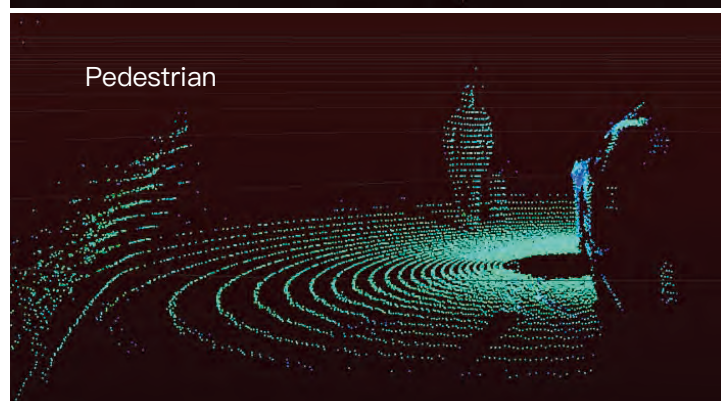
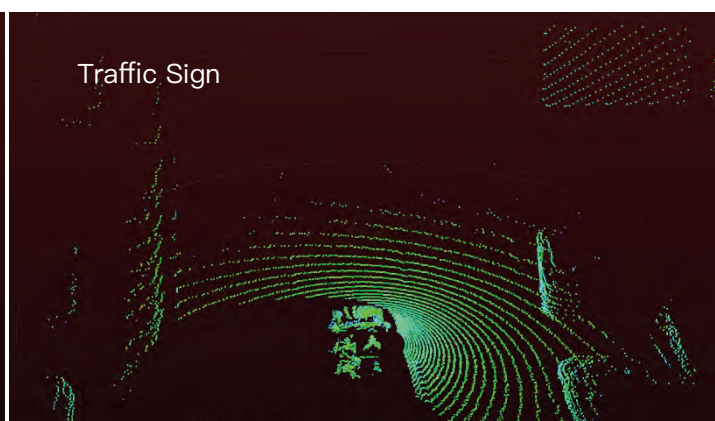
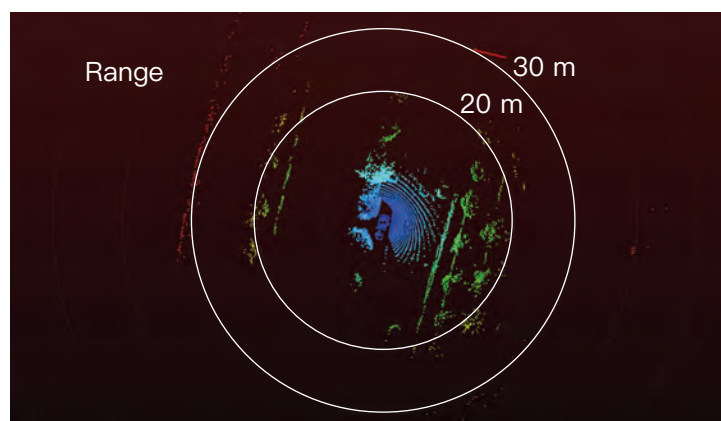
Blind Spot Detection for Autonomous Driving



Robotics/Logistics



Data Captured by PandarQT



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Website QR Code