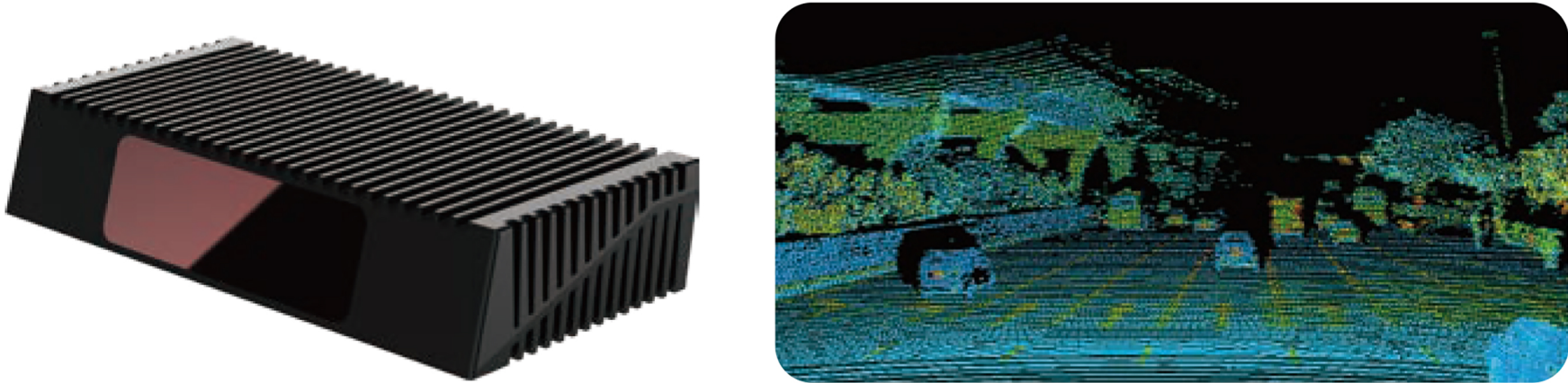


LS-S2 Series

Image-grade 1550nm Auto-grade LiDAR

LS series is image-grade LiDAR meeting automotive standards, which adopts the in-house 1550nm fiber-laser and high-power core optical devices. LS series can detect small objects within super long range. The series is also built with anti-interference functionality.

LS-S2 series offers a variety of channels and scanning options, featuring an ultra-thin design for easy integration into vehicles. With its 1550nm fiber laser auto-grade LiDAR, it is designed for high reliability and mass production, empowering autonomous driving. It leads the industry in performance and is the preferred main LiDAR for Level 3 and higher advanced autonomous driving.



Model	LS128S2	LS180S2	LS320S2	LS400S2
Channels	128	180	320	400
Channels Scanned	1280/s	1800/s	3200/s	4000/s
Horizontal FOV	120°	120°	120°	120°
Vertical FOV	25°(±12.5°)	25°(±12.5°)	25° (±12.5°)	25° (±12.5°)
Horizontal Angular Resolution	B: 0.103°	B: 0.13°	B: 0.0518°	A: 0.0648°
Vertical Angular Resolution	B: 0.076° (ROI) 0.33° (Non ROI)	B: 0.1° (@ROI)	B: 0.09° (@ROI) 0.2° (Non-Global)	A: 0.05° (Non-Global)
Data Point Generating Rate	1,480,000 pts/sec	1,650,000 pts/sec	1,850,000 pts/sec	1,850,000 pts/sec

Note: LS-S2 series offers two scanning options: A: Uniform scanning and B: Fixed ROI scanning. For more information on additional channel configurations and scanning options, please contact our sales team.

Wavelength	1550±25nm	IP Grade	IP6K9K
Laser Class	CLASS 1	Operating Temperature	-40℃ ~ 75℃
Detection Method	TOF	Storage Temperature	-40℃ ~ 105℃
Detection Range	1.5m~250m(@10%)	Vibration Test	5Hz-2000Hz, 3G rms
Range Accuracy	±2cm	Shock Test	500m/sec², lasting for 11ms
FPS	10FPS	Weight	Basic: ≤1.8 kg Thin: ≤1.5 kg
Communication Interface	Automotive Ethernet	Dimensions (LxWxH)	Basic: 236x125x49 mm Thin: 228x125x45 mm
Input Voltage	12~36V DC		
Power Consumption	≤28 W		