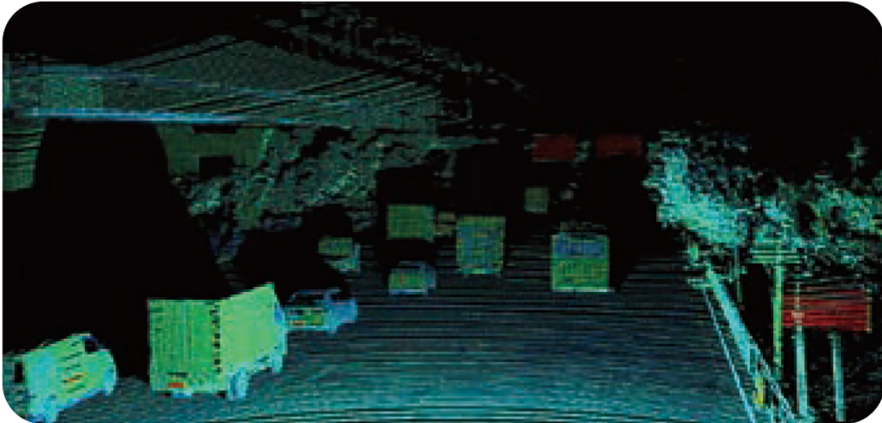


LS-S3 Series (Terminator 1)

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-S3 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	LS144S3	LS180S3	LS320S3	LS400S3
Channels	144	180	320	400
Channels Scanned	1440	1800	3200	4000
Horizontal FOV	120°	120°	120°	120°
Vertical FOV	24°	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: 0.2°, 0.0909°(@ROI, 4°)	B: 0.1°(@ROI)	B: 0.09°(@ROI) 0.2°(Non-Global)	A: 0.05°(Non-Global)
Data Point Generating Rate	1,650,000 pts/sec	1,650,000 pts/sec	1,850,000 pts/sec	1,850,000 pts/sec

Note: LS-S3 series offers four scanning options: A: Uniform scanning, B: Fixed ROI scanning, E: Bidirectional uniform scanning, and F: Bidirectional ROI scanning. In addition to the mentioned channel configurations, there are also four options available: 120/128/140/160. For more information on additional cable harness configurations and scanning options, please contact our sales team.

Wavelength	1550±25nm	Power Consumption	≤25 W
Laser Class	CLASS 1	IP Grade	IP6K9K
Detection Method	TOF	Operating Temperature	-40℃ ~75℃
Detection Range	1.5m~250m(@10%)	Storage Temperature	-40℃ ~105℃
Range Accuracy	±2cm	Vibration Test	5Hz-2000Hz, 3G rms
FPS	10FPS	Shock Test	500m/sec², lasting for 11ms
Communication Interface	Automotive / Industrial Ethernet	Weight	≤1.6 kg
Input Voltage	9~36V DC	Dimensions (LxWxH)	229x132x46 mm