

# CX-S3 Series

## Auto-grade Hybrid Solid-state LiDAR

CX series is a modification of CX126S3 hybrid solid-state LiDAR, featuring two types of channels: single-line and six-line. It is designed to meet the requirements of industrial scenarios, offering precise distance and reflectivity information for 2D/3D mapping, detection, and obstacle avoidance. With a maximum scanning frequency of 150Hz and a detection range of 150 meters (@10%), it is suitable for large-scale operations. CX series LiDAR boasts fast scanning speed, high resolution, and high reliability as its key advantages.

CX1S3



CX6S3



		CX1S3	CX6S3
LASER	Wavelength	905nm	905nm
	Laser Class	Class I	Class I
SPEC	Channels	1	6
	Detection Method	TOF	TOF
	Detection Range	150m@10%	20m@10%
	Range Accuracy	±3cm	±3cm
	Horizontal FOV	120°	120°
	Vertical FOV	/	1°
	Horizontal Resolution	0.024° / 0.048° / 0.072° / 0.096° / 0.12°	0.075° / 0.15° / 0.3°
	Vertical Resolution	/	0.2°
	FPS	30 / 60 / 90 / 120 / 150 Hz	5 / 10 / 20 Hz
EXPORT	Data Point Generating Rate	150,000	48,000
	Communication Interface	Industrial Ethernet	Industrial Ethernet
ELECTRIC	Input Voltage	9V-32V DC	9V-32V DC
ENVIRON- -MENT	IP Grade	IP6K9K	IP6K9K
	Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C
	Storage Temperature	-40°C ~ 105°C	-40°C ~ 105°C
	Vibration Test	5Hz-2000Hz, 3G rms	5Hz-2000Hz, 3G rms
Shock Test	500m/sec <sup>2</sup> , lasting for 11ms	500m/sec <sup>2</sup> , lasting for 11ms	
MACHINE	Weight	635g	635g
	Dimensions (LxWxH)	110x101.4x45 mm	110x92.5x45mm