



EMX

Real 192-Beam Automotive-Grade High-Performance Digital LiDAR

EMX is built on RoboSense's leading global digital automotive LiDAR platform, the EM platform. Designed for L2+ and low-speed autonomous driving, it serves medium-to-low-speed robotic applications such as unmanned delivery, commercial cleaning, mining trucks, and inspection. It delivers true 192-line, ultra-high-definition point cloud at 2.88 million points per second, with a detection range of up to 200m for low-reflectivity (10% NIST) objects.

Product Advantages



Real 192-Beam



High Resolution



Slim and Lightweight



All-Condition Adaptability



SPAD-SoC Chip



VCSEL Chip

Product Specifications

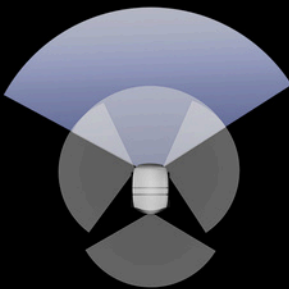
Lines	192	Laser Wavelength	905nm
Laser Safety	Class 1 Eye Safety	Ethernet Connection	1000M Base T1
Range	200m(200m@10% NIST)	Output	UDP packets over Ethernet
Blind Spot	≤1m	UDP Packet content	Distance, Angular coordinates, Intensity, timestamp, etc
Range Precision (Typical)	5cm (1sigma)	Operating Voltage	9V - 16V
Horizontal FOV	120°	Power Consumption	10W
Vertical FoV	20°	Operating Temperature	-40°C ~ +85°C
Horizontal Angular Resolution	Average 0.08°	Storage Temperature	-40°C ~ +105°C
Vertical Angular Resolution	0.1°	Weight (Without Cabling)	~520g±5%
Frame Rate	10Hz	Dimension	110mm (D) x 100mm (W) x32mm (H)
Points Per Second (Single Return Mode)	2880,000 pts/s	Time Synchronization	gPTP
Points Per Second (Single Return Mode)	5760,000 pts/s	Ingress Protection	IP67, IP6K9K

Deployment Recommendations

EMX, paired with 3 to 4 E1 solid-state blind-spot LiDARs, is highly favored in Autonomous Delivery Robot, Autonomous Cleaning Robot, Patrol Robot, Robotruck and other scenarios.

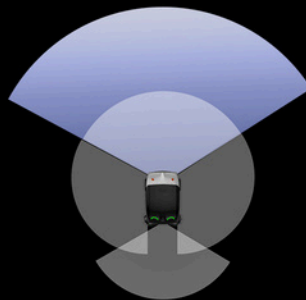
Autonomous Delivery Robot

● EMXx1 ● E1Rx4



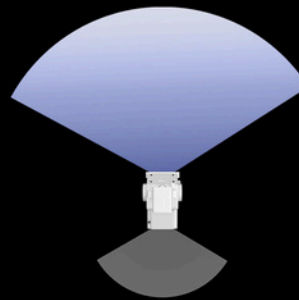
Autonomous Cleaning Robot

● EMXx1 ● E1Rx4



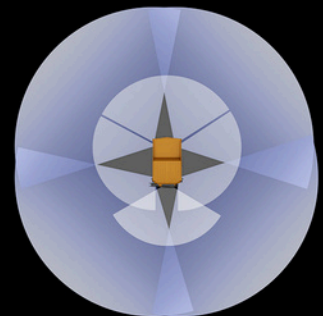
Patrol Robot

● EMXx1 ● E1Rx1



Robotruck

● EMXx4 ● E1Rx4



Generation ROBOTS

Brand of **NGX** ROBOTICS



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