



# MX

## Redefining automotive-grade mid-range LiDAR

MX is the new generation of automotive-grade mid-range LiDAR from the RoboSense M platform, which combine featuring outstanding ultimate cost-effectiveness, leading performance, and compactness.

MX is equipped with RoboSense's in-house SoC chip M-Core, utilizing the 2D scanning chip from the M platform while upgrading the transceiver system, marking the pinnacle of LiDAR chip technology. Additionally, the intelligent "GAZE" function has been upgraded, with adjustable ROI globally, providing a safer and more efficient intelligent driving experience.

## Product Advantages



25mm slim and compact, elegant and agile



NVH-free, silent inside and outside the cabin



All FOV ROI, equivalent to 251-beam



In-house developed SoC: M-Core



The 2D scanning chip from M platform



Upgrading transceiver from M platform



## In-house SoC: M-Core



**Advanced architecture**  
Strong performance

Integrates quad-core 64bit APU and qual-core MCU, the main frequency 1GHz and 8MByte storage unit



**Special design**  
Powerful efficiency

Multi-threshold TDC enhances weak echo detection capacity by 4 times and is equivalent to a 32-fold enhancement in distance resolution capability



**High integration,**  
low power consumption

Integrated backend circuits reduce circuit board size by 50%, power consumption by 40% and are cost-effective

## Product Specifications

Range	200m	# of lines	126 (equivalent to 251-beam in ROI area)
Thickness	25mm	ROI angular resolution (HxV)	0.1°x0.1°
FOV (HxV)	120°x25°	Power consumption	< 10W

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