

# M10 Series Navigation & Obstacle Avoidance LiDAR



## Abstract

M10 is a Industrial-grade 2D LiDAR having 360° high precision perception for navigation, positioning and obstacle avoidance of robots, detection range reaching 25m. Its smart size is the strong customer benefits for system integration.

## Parameters

Model	M10
Wavelength	905nm
Laser Classification	Class 1 (Eye-safe)
Data Content	Distance, Angle
Measurement Range	25m@70% (10m@10%)
Ranging Accuracy	±3cm
FOV	360°
Rotation Rate	10Hz
Data Points Generated	10,000 pts/s
Angular Resolution	0.36°
Operating Voltage	5V
Operating Temperature	-20°C ~ 60°C
Motor	Built-in Brushless Motor
Communication Interface	UART( Baud rate 460800)
Shock Test	500m/sec <sup>2</sup> , last11ms
Vibration	5Hz-2000Hz, 3G rms
Weight	200g
Dimension (D·H)	Φ80*40mm