VanJee LiDAR creates vision for robotics.

WLR-722

32-Line Ultra-wide FOV LiDAR

Description

The WLR-722 (32-layer) is a compact 3D mechanical LiDAR (Φ75mm × 75mm × 75mm) with superior detection capabilities, featuring a 63.5 ° × 360 ° field of view (FOV), a 192K point frequency, and a ranging distance of 30m at 10% reflectivity. This makes the WLR-722 an excellent choice for robotics operating in spatially complex environments, offering greater design flexibility and enhanced 3D perception. Notably, the LiDAR utilizes a linear scanning method, simplifying algorithm development.

Advantages

Ultra-Wide FoV
Hemispherical ultra-wide field of view,with a horizontal FOV of 360° and a vertical FOV of 63.52°.

Cost Effective
Modular Design& Automated Production

Point Cloud Linear Scanning
32-line uniform scanning, making it easy for algorithmic secondary development.

Ultra-Compact Size

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Parameters

Basic Parameters 〉〉〉

Model	WLR-722	Operating Voltage	9~32V
Number of Channels	32Line	Operating Temperature	-20℃~60℃
Size	Φ75mm × 75mm × 75mm	Storage Temperature	-40℃~80℃
Net Weight	465g	Laser Length	905nm
Power Consumption	8W		

Performance Parameters 〉〉〉

Scanning Frequency	10Hz	Horizontal FOV	360°
Ranging Distance	0.2~30m	Horizontal Resolution	0.3°/0.6°
Ranging Accuracy	±20mm(1σ)	Vertical FOV	63.52° (-12.76°~-50.76°)
Data Rates	192,000/384,000points/s	Vertical Resolution	2°

Relevant Certification 〉〉〉

Ingress Protection	IP67	Time Source	UDP/GPS/IP
Laser Safety	Class 1 (Eye safety)		

LIDAR Point Cloud