



VanJee LiDAR would create vision for robotics (Forklift+AMR) to realize autonomous operation with utmost safety.

VanJee LiDAR

16-Line Mechanical LiDAR WLR-720

Description

VanJee LiDAR WLR-720 stands out as a long-range 3D LiDAR with 150 meters ranging distance and 16-channel scanning layers. The LiDAR has capability to do **SLAM (simultaneous localization and mapping) navigation** by providing high quality 3D point clouds. Notably, the LiDAR is also good at **target navigation** due to it features 0° horizontal line to detect target perfectly. Moreover, the LiDAR has IMU inside to make AMR do **Inertial Positioning** (provide crucial data including orientation, position tracking and motion sensing). Lastly, VanJee would provide SLAM algorithm to make our AMR customers utilize LiDAR.

Advantages



150M Ranging Capacity
Meet outdoor large-scale scenarios



High level of Ingress Protection
IP67 protection rating



Millimeter Level Positioning Accuracy
Provide SLAM+Target navigation with millimeter level accuracy



Superior Anti-Interference Capability
Multi-return technology and mechanism unaffected by Interference from other LiDARs

VANJEE Headquarters



Building No.12, ZPark, Haidian District, Beijing 100193, China



+86 10 59766766



www.vanjee.net



ibd@vanjee.net

WLR-720

Parameters

Basic Parameters >>>

Model	WLR-720	Operating Voltage	DC12-32v
Number of Channels	16	Operating Temperature	-20°C-60°C
Size	Φ105.7×81.5	Storage Temperature	-40°C-85°C
Net Weight	0.91kg	Laser Length	905nm
Power Consumption	12W(Typical Value)		

Performance Parameters >>>

Scanning Frequency	5Hz/10Hz/20Hz	Horizontal FOV	360°
Ranging Distance	70m@10% Reflectivity	Horizontal Resolution	0.1°/0.2°/0.4°
Operating Range	0.3-150m	Vertical FOV	30° (-16°~14°)
Ranging Accuracy	±2cm(Typical Value)	Vertical Resolution	2°
Return Mode	Single Return/Double Return		

Relevant Certification >>>

Ingress Protection	IP67	Transport Protocol	UDP/IP
Laser Safety	Class1 (Eye Safety)	Time Source	GPS/PTP

WLR-720

Scenarios

