AX8114 S300 Lifting Robot Specs		
Picture	 	
Basics	Height	310(mm)
	Size	740*500 (mm)
	Weight	72kg
	Exterior material	ABS, Sheet Metal
Carrier	Shelf	Standard: 660*700*325 (mm) or customize the shelf
	Rated load	300kg
	Lifting height	50mm
	Lifting speed	5mm/s
Use Environment	Water-proof & Dust-proof	Whole body IP43, battery IP66
	Operating temperature	-10℃~65℃; UV resistance; Corrosion resistant
	Storage temperature	-20℃~65℃
	Charging temperature	5~40℃ (indoor)
Display&touch	No screen, Using compatible terminal control (cloud, PC, mobile, PAD)	
Network Communication	4G	Support FDD B1/B3/B5/B8,TDD B38/39/30/41
	5G	Supported, need to add 5G accessories
	Data quota	2G/ month for each robot
	WIFI	Wifi module (AP6256) 2.4G&5GHz, support 802.11 a/b/g/n/ac protocal
	Bluetooth	Bluetooth 5.0, BLE
OS	Linux(Ubuntu)	
Sensors	LiDAR1	Detection zone: 360°, Detection range: 0.02～40m
	LiDAR2	Detection zone: 140°, Detection range: 0.02～12m
	RGB camera	215° FOV, resolution 1280*720
	IMU	6DOF; Rate dynamic range: ±2000dps; Precision: 0.01°
	Wheel speed indicator	odometer
Charging & Battery life	Battery	Charging voltage: 24V
		Capacity: 30000mAh
		Battery life : 9h Use charging pile to achieve 7*24h service
		The time it takes to fully charge: 5.5h
	Adapter	Working voltage: 100~240VAC、50/60Hz
	Charging pile	Dimension: 375mm*160mm*355mm
		Weight: 4.35kg
		Input: 100-240V~50/60 Hz
		Output: 29.4V==7.0A
Control	Chassis CPU	ARM® Quad-core Cortex-A72 1.5Ghz
	Chassis GPU	VideoCore VI
	Chassis memory	RAM: 4GB binary channels LPDDR4; ROM: 32GB High speed eMMC
		Support OpenGL ES 1.1/2.0/3.0,OpenCL1.2,Directx11
		Embedded high performance 3D acceleration hardware

	Picture processing	H.264/H.265/VP9 up to4Kx2K@60fps H.264/H.265 The decoder supports 10bit decoding
		1080P multi-format video decoding, support H.264, VP8
Other firmware	indicator light	LED (Programmable, support segmented control)
	Emergency stop	2
	Loudspeaker	4Ω10W Supports TTS/ audio stream output
Movement	Velocity	1.2m/s Adjustable
	Whether support outdoor operation	It can be used in qualified parks/industry zones
	Obstacle climbing	20mm
	Slope climbing	8°
	Floor gap width	35mm
	Passage width	The narrowest width of the robot path needs to be not
	Elevator width	70cm+
	Gate width	70cm+
	Positioning Accuracy	±5(mm)/±1(°)
Software	APP	APP remote management. Use the app program to send robot task, visualize task statistics functions.
	Robot management platform	Authorization allocation and business management of robot users; Operational data analysis
	Remote monitoring platform	Real-time status monitoring; Real-time fault alarm and
	Remote deployment management platform	The robot can be deployed via remote mapping. Operators can scan and edit the map remotely.
	Remote scheduling management platform	Remote cross-space scheduling
	Real-time data visualization	Display real-time status and operational statistical analysis of robots in different businesses.