



DUAL-ARM COMPOUND ROBOT



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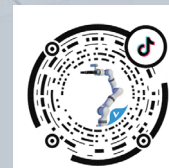
Add: Plant 7, intelligent digital industrial park, Changzhou Science and Education Town, Changzhou, Jiangsu, China

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Add: No. 501, Building A, Huafeng Robot Industrial Park, Baoan District, Shenzhen City, Guangdong Province, China.

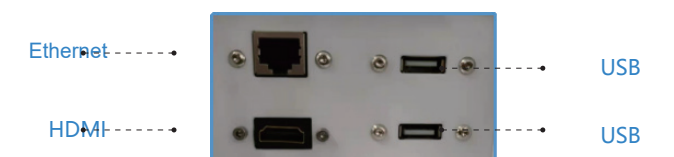
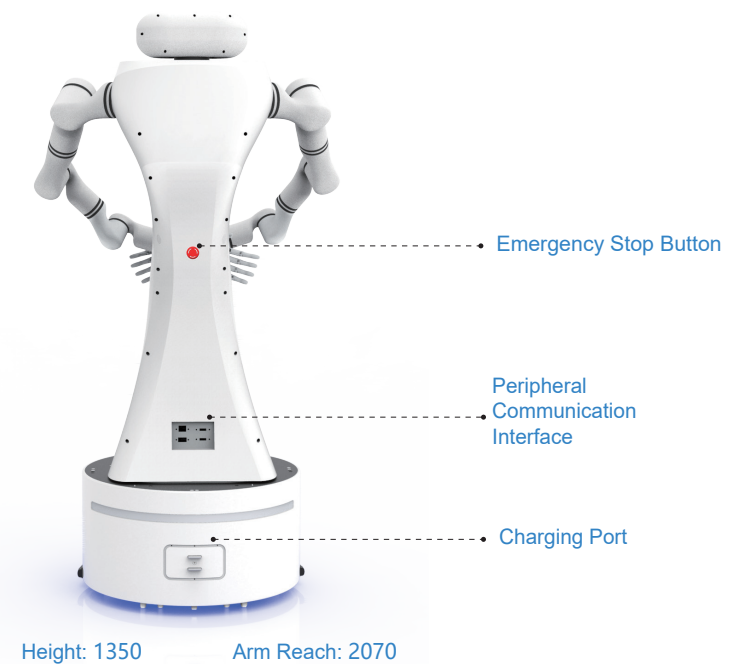


WeChat



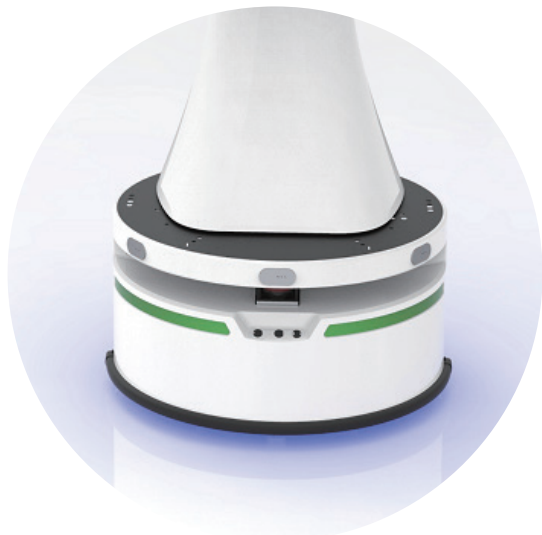
TikTok

Structure and Components



Performance and Parameters

Product Name	Dual-Arm Compound Robot
Model	RMC-DA
Platform Size	Height: 1350mm. Arm Reach: 2070mm
Weight	~80Kg
Charging Power Supply	Single-phase Three-wire ~ 220V±10% 50Hz
Operating Voltage	DC24V
Positioning accuracy	<±5cm
Safety Protection	Laser scanning obstacle avoidance, visual obstacle avoidance, force sensor, emergency stop etc.
External Interface	Ethernet、USB、HDMI
Working environment	Temperature - 10℃ ~ +40℃. Relative humidity≤85% (25℃). Altitude < 4000m
Speed	1m/s



Performance and Parameters

Mobile Chassis

Dimension (Diameter*Height)	Payload	Drive	Navigation	Navigation Accuracy	Battery	Outlet Power	Communication	Working Hours	Sensors
505*280mm	50kg	8 wheels(2 driving wheels+4 mecanum wheels+2 auxiliary wheels), differential driving +active suspension, 250W hub servo motor x2	LiDAR	±5cm	32Ah	24V/20A	Ethernet/WIFI	Standby for 20 hours; Run(0.7m/s)for 11 hours with no load	10m laser ranging radar, depth Camera (angle of view: H=58.4° V=45.5°, distance: 0.35~2m), Ultrasonic distance sensor

Robotic Arm

Robotic Arms	DoF	Reach	Payload	Voltage Supply	Weight(Controller included)	Max Joint Speed	Repeatability	Communication	Peripheral Interface
	7	610mm	5Kg	DC24V	7.8Kg	180°/s	±0.05mm	WIFI/Ethernet/ Bluetooth /USB/RS485	RS485/USB/ Ethernet
Five-Finger Dexterous Hand	Joint No.	Active Axes		Weight	Repeatability	Force Resolution	Four-Finger Grip Strength	Thumb Grip Strength	
	12	6		530g	±0.2mm	0.5N	0~10N	0~15N	

Vision Sensors

Motion Angle		Depth of field angle		Depth resolution		Ideal Usage Range		Dimension		Power supply		Communication	
Rotation Angle: -90°— + 90° Pitch Angle: -30°— + 10°		87°*58*95°		1280*720@90fps		0.3m~3m		90mm*25mm*25mm		5V		USB3.0	

Main Controller Module

GPU		CPU		Memory		OS	Ethernet No.	UPHY	Other Interface		Dimension	
384-core NVIDIA Volta™ GPU with 48 Tensor Cores		6-core NVIDIA Carmel ARM@v8.2 64-bit CPU 6MB L2 + 4MB L3		8 GB 128-bit LPDDR4x 51.2GB/s		Ubuntu18.04	1	4x USB 3.1, USB 2.0 Micro-B	GPIOs, I2C, I2S, SPI, UART		90mm×103mm×35mm	

