

Hermes PRO MAX Universal Robot Platform

Model: H5M15-PRO MAX

Specification

- Suitable for small and medium sized robot development
- Strong Adaptability
- Widely Modifiable



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I. Introduction

Hermes PRO MAX is a compact, adaptive, and cost-effective robot platform developed by SLAMTEC, designed to meet the needs of small robot application development. It can be used in various commercial environments such as intelligent inspection robots, container delivery robots, and restaurant serving robots.

It is equipped with SLAMTEC's newly upgraded high-performance SLAMCUBE2 autonomous navigation and localization system, which enables it to work in various commercial settings with different applications.

Multi-Floor movement and Simple deployment

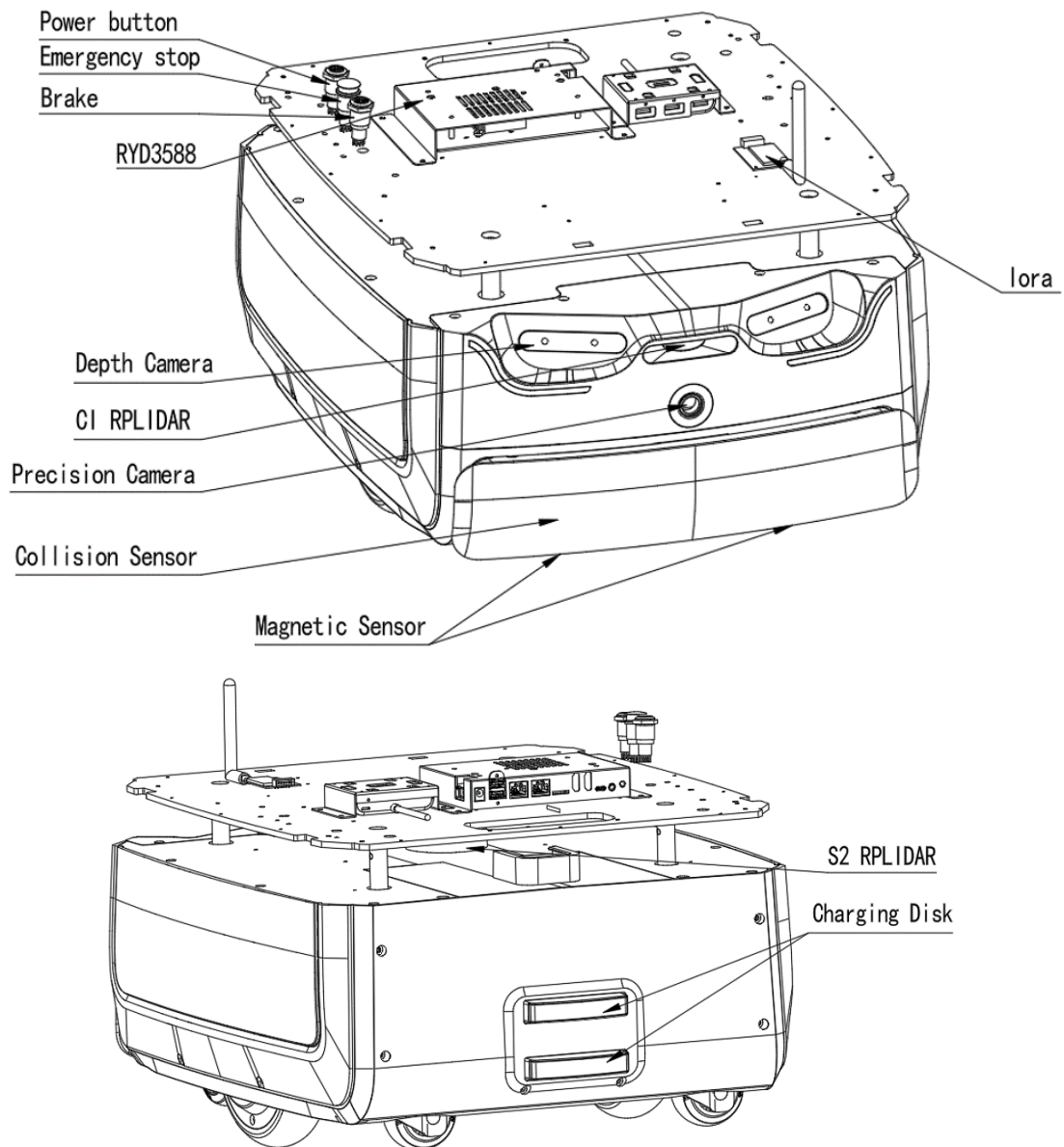
Hermes PRO MAX is equipped with SLAMTEC's newly upgraded Intelligent Elevator Control System 4.0, which adapts to different elevator deployments from various brands, making it more versatile.

Hermes PRO MAX uses the latest upgraded version of SLAMTEC's RoboStudio 2.0 deployment software, which supports one-click merging of maps for multi-floor mapping. It enhances the mapping and deployment efficiency while streamlining the deployment process, resulting in easy and quick deployment.

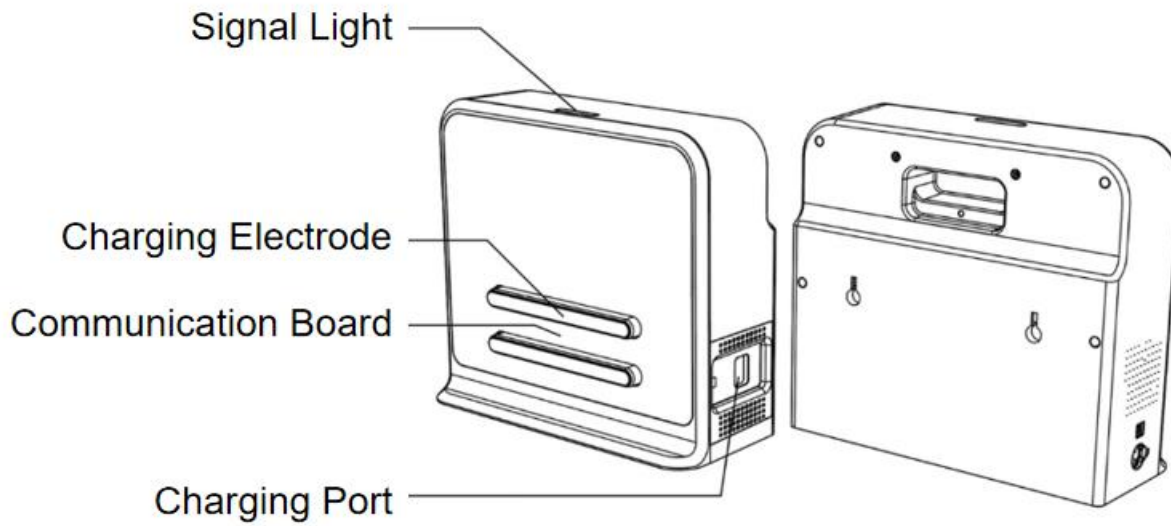
Multi-sensor data fusion

Hermes PRO MAX adopts multi-sensor fusion technology, including LiDAR sensor, magnetic sensor, depth camera, collision sensor, ultrasonic sensor, etc. This enables it to adapt freely to the complex and changing commercial environment, and successfully achieve autonomous mapping, localization, and navigation.

II. Exterior view



III. Charging station



Schematic diagram of charging station

IV. List of products

Description	Quantity	Remark
Hermes PRO MAX	1	Hermes PRO MAX chassis body
Charging station	1	The environment needs to be selected before deployment

V. Product parameters

Model		Hermes Pro Max Robot Base	
Core Feature		SLAMWARE™ Localization and Navigation	
Features		Metric	Value
Dimension and Weight		Length x Width	465mm*545mm
		Height	276mm (excludes controller)
		Net Weight	40kg (excludes controller)
		Rated Load	50kg
		Max Load (Flat Concrete Surface)	80kg
	LIDAR	Model	RPLIDAR S2P (Dtof)
Sensor Performance		Scanning Radius	0.05-50m (90% reflectivity, white objects) 0.05-10m (10% reflectivity, black objects)
	Distance Accuracy	±30mm	
	Depth Camera	Quantity	2 (can add1)
Detection Range		0.3m –2m	
Field of View (FOV)		H:117±3°; V:70±3°	
		Quantity	1

	Low Obstacle & Cliff Detection Sensor	Minimum Detection Height for Low Obstacles	>3cm
	Precise Docking of Cameras	Docking Accuracy	±1.5cm
		Docking Angle	±1.0°
	Magnetic Sensor	Quantity	2
		Max Detection Range	35mm
	Bumper	Quantity	2
		Trigger Mode	Physical Collisions
		Trigger Distance	0.3-0.5cm
		Detectable Minimum Force	8N
	Mapping performance	Map Resolution	15mm
Max Mapping Area		500m x500m (5cm map resolution) 350m x350m (1.5cm map resolution)	
Motion Performance	Maximum Moving speed	1.2m/s (Customizable to 1.5m/s)	
	Default Moving Speed	1m/s	

		Max Cross Slope	10° Slope: Max slope angle of chassis: 10°; Slope = 18% × Ramp; The height of the full-machine mass center is within 18 cm, and the safety ramp within 10°. (A 100% slope means a 45° ramp, whose height difference for 100 m is 100 m.)
		Vertical Crossing Height	20mm (Full-load)
		Horizontal Crossing Width	40mm (Full-load)
		Min Path Width (robot base)	750mm
		Alignment Accuracy (AVG)	±2cm
		Alignment Accuracy (MAX)	±4cm
		Min Point to Point Angle	±1.0°
		Multi-Robots Obstacles Avoidance	Supports up to 3 robots in the same scene
			LORA Module (Standard)
Wheelset		Wheelset Parameters	7NM 6.5 Inch In-Wheel-Motor*2 2.5 Inch Industrial Universal Wheel*2; 3 Inch Auxiliary Wheel*2 (Front)
		Power Connector	DC 24V 10A

User Interface	Hardware Interface	4G	Support 4G module (paid customization)
		HDMI	1*HDMI
		Audio	1 × 3.5mm headset socket;
			1 × LINE_out audio jack
	Network Interface	Ethernet	Ethernet; 2*RJ45 Gigabit Ethernet port
		Wi-Fi	2.4GHz/5GHz
Software Interface	SLAMWARE™	HTTP APIs support different programming languages and platforms, such as Windows, iOS, Android, and Linux	
Ethernet	Wi-Fi	Network environment without authentication	
	4G	Supports 4G SIM cards from domestic and international carriers (customized according to needs)	
Battery and Capacity	Capacity Specification	24V 30AH Lithium Iron Phosphate Battery (Standard)	
	No-load Operating Time	>20H (No-load)	
	Full-load Operating Time	12 H	
	Charging Time	3~3.5h (Fast charging station)	
	Battery Life	2000times	

Power Consumption	Standby Power Consumption	48W(No-load)
	Full-load Rated Power Consumption (80kg)	78W (Full-load)
	Max Power Consumption with External Load	240W
Noise	Operating Noise Level	≤60db
Operating Environment	Operating Temperature	0°C ~ 40°C
	Transport and Storage Temperature	-25--+55°C
	Operating Humidity	20 ~ 90%rh (No condensation)
	Operating Altitude	≤2000m

Charging station	
Overall Dimensions	W360mm*D150mm*H320mm
Color	White
Rated Input	100-240V 50/60Hz 3A MAX
Rated output	DC 25.5V 10A