

TMR Series - SLAM Autonomous Mobile Robot

TMR autonomous mobile robot incorporates multi-sensor and SLAM autonomous positioning and navigation technologies to achieve adaptable environmental perception in complex surroundings.

In addition, TMR can achieve highly precise localization, with an optimal positioning accuracy of $\pm 1\text{cm}$. The smooth and robust exterior design enable stable operation in narrow passages. Moreover, it can adapt to different operational environments and complex scenarios, operating while dynamically avoiding obstacles, even in high dynamic environment.

Paired with our user-friendly SmartRC software, TMR unlocks a new level of customization. This powerful combination allows for swift deployment, flexible configuration, and the ability to tailor solutions to meet the specific needs of each customer.

TMR-1000

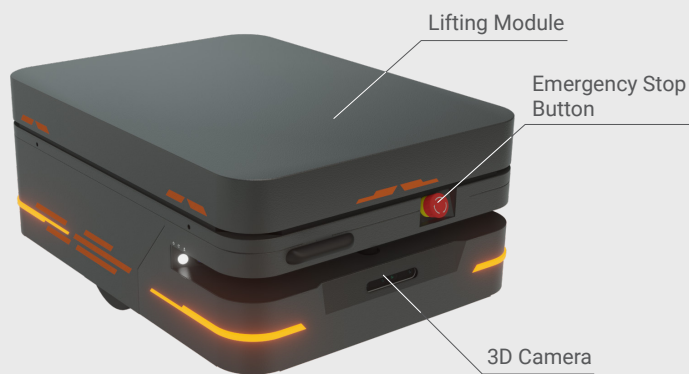


TMR-300

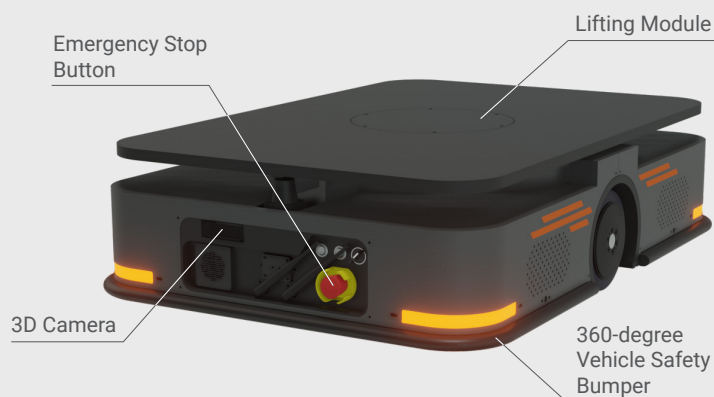


TMR-300 wins
the Best Product Award
at the 21st National Brand Yushan Award

TMR-300



TMR-1000



		TMR-300	TMR-1000
Basic Specifications	Vehicle Dimension	600 x 800 x 250 mm	1200 x 850 x 300 mm
	Maximum Payload	300 kg	1,000 kg
	Operating Time on a Full Charge	8 hr	8 hr
	Maximum Speed	1.5 m/s	1.2 m/s
	Navigation Mode	SLAM	SLAM
	Repeat Positioning Accuracy	±5 cm	±5 cm
	High-Precision Positioning Accuracy	±1 cm	±1 cm
	20% ~ 80% Charging Time	1.5 hr	40 min
Safety Features	Emergency Button	2 (Front/Rear)	2 (Front/Rear)
	Obstacle Avoidance Mechanism	LiDAR and 3D-based	LiDAR and Physical-based
	Audible Alert	Yes	Yes
	Warning Light	Yes	Yes
Others	Operating Temperature Range	5 °C ~ 40 °C	5 °C ~ 40 °C
	Communication Method	Wi-Fi 6 (IEEE 802.11ax)	Wi-Fi 6 (IEEE 802.11ax)

SmartRC

Robot operation web-based software
independently developed by TAC Dynamics



Robot Management

- Directly connects to robots for management and configuration
- Manually plans robot movement logic based on task requirements
- Easily edits robot task processes and monitors TMR status
- Freely customizable robot prompts, navigation mode, obstacle avoidance mode, operating speed, and more

Map Management and Editing

- Controls the robot to scan the area to create a map and edit it
- Integrates with TAC FMS software for multi-vehicle, multi-map management
- Creates various types of task stations and draws restricted areas
- Provides multiple robot positioning methods and allows real-time map setting changes



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