



Product Brochure



Product Catalogue

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Product Series Introduction

DT Series Robot Showcase

The DT series two-wheeled differential-speed mobile robots offer high flexibility, strong load capacity, automated operation, safety, reliability, and cost-effectiveness. They can be equipped with various tools and equipment as needed and are widely used in indoor factory, shopping mall, and hospital environments.

Movement Mode	Two-wheel drive with differential steering, capable of in-place rotation		
Models	DT-01	DT-01 Pro	DT-02 Pro
Image			
Dimensions	500*420*310 (mm)	730*460*260 (mm)	980*670*268 (mm)
Speed	1.3M/S	1.5M/S	1.2M/S
Load Capacity	50KG	120KG	300KG
Battery Life	3H	>4H	>3H
Battery Capacity	24V 12AH	24V 20AH	48V 20AH
Applicable Terrain	Suitable for indoor flat and moderately rough hard surfaces, such as those found in factories, shopping malls, and courtyards		

Usage:

01 Support communication protocol control  Standard 232 serial communication protocol	02 Support sports data reading  Chassis related data and status can be read through 232 serial port protocol	03 Support ROS development  Can carry out ROS development and provide ROS driver package support	04 Support automatic recharge  Supports automatic charging within the recharging range through one-button remote control setting
05 Support external power supply  There is a corresponding external power supply module to facilitate loading additional equipment	06 Support appearance modification  Support color, LOGO and other personalized customization	07 Support structure extension  Support loading other devices	

Product Series Introduction

PT Series Robot Showcase

The PT series four-wheel differential mobile robots utilize differential control technology, enabling free steering and flexible movement to adapt to diverse work scenarios. They can be equipped with various tools and equipment as needed to perform tasks such as transporting, picking, loading and unloading. They are widely used in logistics, warehousing, production lines, healthcare, education, and other fields.

Movement Mode	Four-wheel drive with differential steering, capable of in-place rotation	
Models	PT-01 Pro	PT-03
Image		
Dimensions	995*615*435 (mm)	1575*1065*565 (mm)
Speed	1.2M/S	1.5M/S
Load Capacity	80KG	200KG
Battery Life	2H	>2H
Battery Capacity	48V 20AH	48V 40AH
Quick Battery Replacement	Supported	Supported
Applicable Terrain	Suitable for both indoor and outdoor environments, including urban roads, agricultural fields, gravel mountain paths, and mixed environments.	

Usage:

01 Support communication protocol control  Standard 232 serial communication protocol	02 Support sports data reading  Chassis related data and status can be read through 232 serial port protocol	03 Support ROS development  Can carry out ROS development and provide ROS driver package support	04 Support automatic recharge  Supports automatic charging within the recharging range through one-button remote control setting
05 Support external power supply  There is a corresponding external power supply module to facilitate loading additional equipment	06 Support appearance modification  Support color, LOGO and other personalized customization	07 Support structure extension  Support loading other devices	

Product Series Introduction

MT Series Robot Showcase

Ackermann front steering mobile robot has a high carrying capacity and can carry a large amount of goods or equipment. It is a universal chassis for indoor and outdoor use, has the ability to adapt to three mixed environments, has independent suspension, standard control protocol, supports rapid secondary development, and is widely used in logistics, warehousing, construction, science and technology. It has a wide range of applications in education and other fields.

Movement Mode	Front-Steering Rear-Drive Ackermann steering chassis structure		
Models	MT-01	MT-04 Pro	ET-01
Image			
Dimensions	1046*688*462 (mm)	1535*810*465 (mm)	1365*848*488 (mm)
Speed	2.5M/S	2.4M/S	5M/S
Load Capacity	80KG	200KG	150KG
Battery Life	3H	2-3H	2-3H
Battery Capacity	24V 40AH	48V 20AH	48V 20AH
Quick Battery Replacement	Supported		
Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as: urban roads, agricultural fields, sandy mountain roads, indoor flat ground, etc.		

Usage:

01 Support communication protocol control  Standard CAN communication protocol	02 Support sports data reading  Chassis-related data and status can be read via CAN protocol	03 Support ROS development  Can carry out ROS development and provide ROS driver package support
04 Support external power supply  There is a corresponding external power supply module to facilitate loading additional devices	05 Support appearance modification  Support color, LOGO and other personalized customization	06 Support structure extension  Support loading other devices

Product Series Introduction

HT Series Robot Showcase

The HT series mobile robots support four-wheel, four-drive control and feature a real-time response system for omnidirectional multi-motion models. The independent drive of each wheel provides excellent maneuverability and precise steering and positioning. They have broad application prospects in scenarios requiring high mobility and flexibility, including warehousing and logistics, scientific research and education, and agriculture.

Movement Mode	Four-Wheel Drive Omnidirectional Chassis Steering Structure			
Models	HT-01 Mini	HT-01	HT-03	
Image				
Dimensions	710*490*385 (mm)	1270*756*550 (mm)	1500*1350*1250 (mm)	
Speed	2.0M/S	1.5M/S	1.5M/S	
Load Capacity	120KG	240KG	300KG	
Battery Life	2H	3H	3H	
Battery Capacity	48V 15AH	48V 40AH	48V 40AH	
Movement mode switching				
	Spin	Traverse	Tilt	Ackerman
Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as: urban roads, agricultural fields, sandy mountain roads, indoor flat ground, etc.			

Usage:

01 Support communication protocol control  Standard CAN communication protocol	02 Support sports data reading  Chassis-related data and status can be read via CAN protocol	03 Support ROS development  Can carry out ROS development and provide ROS driver package support
04 Support external power supply  There is a corresponding external power supply module to facilitate loading additional devices	05 Support appearance modification  Support color, LOGO and other personalized customization	06 Support structure extension  Support loading other devices

Product Series Introduction

GT Series Robot Showcase

Tracked mobile robots have strong obstacle-crossing capabilities and high stability. Their large surface area provides support and stability, and their strong grip makes them suitable for navigating complex and unstable ground environments. This makes them widely used in scientific research, industry, agriculture, military, and rescue operations.

Movement Mode	Tracked, two-wheel differential mode with in-place rotation capability		
Models	GT-01 MINI	GT-01	GT-02
Image			
Dimensions	895*600*328 (mm)	1435*900*685 (mm)	1682*1353*1326 (mm)
Speed	1.2M/S	1.4M/S	1.2M/S
Load Capacity	50KG	300KG	200KG
Battery Life	>3H	>3H	2H
Battery Capacity	48V 20AH	48V 40AH	48V 50AH
Quick Battery Replacement	Supported		
Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as farmland, forestry pastures, mountain mines, construction sites, etc.		

Usage:

01 Support communication protocol control  Standard CAN communication protocol	02 Support sports data reading  Chassis-related data and status can be read via CAN protocol	03 Support ROS development  Can carry out ROS development and provide ROS driver package support	04 Support automatic recharge  Supports automatic charging within the recharging range through one-button remote control setting
05 Support external power supply  There is a corresponding external power supply module to facilitate loading additional equipment	06 Support appearance modification  Support color, LOGO and other personalized customization	07 Support structure extension  Support loading other devices	

Product Series Introduction

Specialized Mobile Robots Showcase

Special chassis can be designed according to the scene requirements, with simple operation and strong adaptability. It has a wide range of applications in scientific research and education, industrial automation, medical care, logistics and warehousing, education and entertainment.

Movement Mode	Mecanum wheel omnidirectional chassis with in-place rotation capability	Four-wheel drive with in-place rotation capability
Models	MK-01	SeaRobot-01
Image		
Dimensions	807*512*474 (mm)	1030*615*688 (mm)
Speed	1.2M/S	1.2M/S
Load Capacity	200KG	80KG
Battery Life	3H	2H
Battery Capacity	24V 40AH	48V 20AH
Applicable Terrain	Indoor conventional rough hard pavement: indoor factory area, indoor shopping mall, indoor campus.	

Usage:

01 Support communication protocol control  Standard CAN communication protocol	02 Support sports data reading  Chassis-related data and status can be read via CAN protocol	03 Support ROS development  Can carry out ROS development and provide ROS driver package support	04 Support automatic recharge  Supports automatic charging within the recharging range through one-button remote control setting
05 Support external power supply  There is a corresponding external power supply module to facilitate loading additional equipment	06 Support appearance modification  Support color, LOGO and other personalized customization	07 Support structure extension  Support loading other Devices	

D1-01 S1

Intelligent navigation robot mobile platform



Product Details

01

The DT-01 SLAM intelligent navigation robot is equipped with a single-line laser navigation module and is suitable for small payload operations under 50kg. It features laser mapping, laser positioning, path planning, perception and obstacle avoidance, collaboration, and interaction. It is primarily used in small industrial scenarios, service industries, and education.



2D Mapping



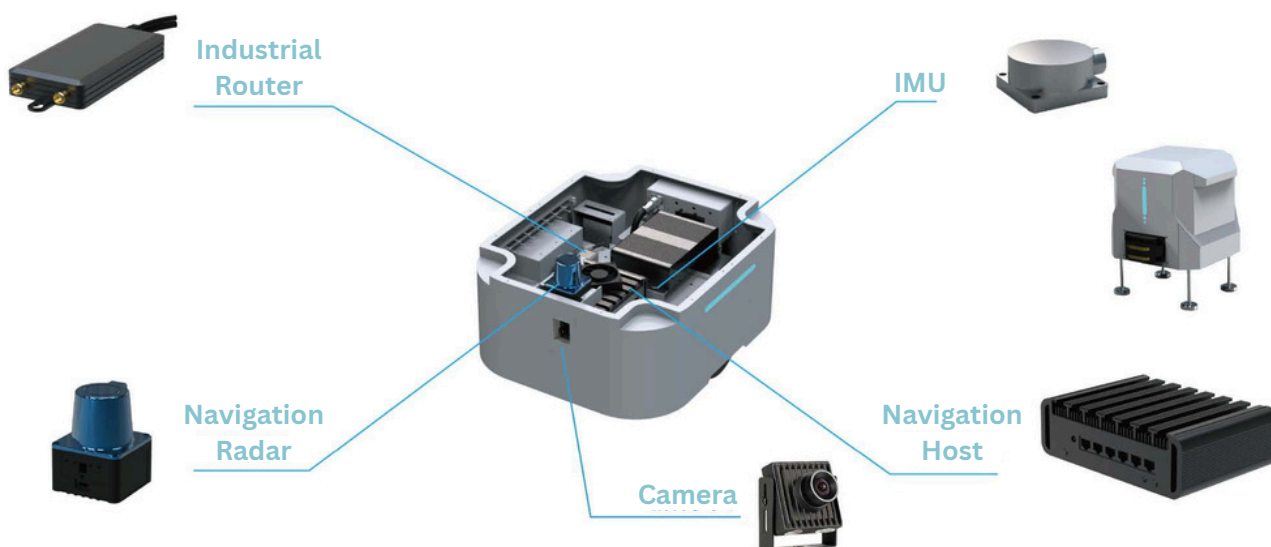
Autonomous Navigation



QR code End Positioning



Part Details

02



Product Features

03

Category	Detailed function explanation	
Function Support	Laser Mapping	The DT-01 SLAM series intelligent navigation robot uses built-in positioning and mapping algorithms to build high-precision laser maps based on environmental information scanned by LiDAR. The laser mapping area can exceed 10,000 square meters.
	Intelligent Path planning	Utilizing LiDAR measurement data and path planning algorithms, the intelligent navigation robot mobile platform can achieve precise positioning and path planning, enabling point-to-point driving. In path planning, it can implement free navigation and trajectory mode, allowing the chassis to travel the trajectory. Conventional positioning accuracy can reach $\pm 50\text{mm}$, and end-assisted positioning can reach $\pm 10\text{mm}$.
	Dynamic obstacle Detection and Avoidance	LiDAR can scan the environment in real time, detecting the location and movement of dynamic obstacles (such as people and other moving objects). Based on this information, the intelligent navigation robot mobile platform can perform dynamic obstacle avoidance to prevent collisions.
	Open Protocol for Secondary Development	The intelligent navigation mobile robot also supports data openness. Through the MQTT protocol/ModbusTCP protocol/TCP protocol, it can control the mobile robot's data status, target instruction execution and robot status information, facilitating user secondary development and rapid use.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	It supports use in scenes with feature points, such as offices, factories or office buildings with fixed objects, such as tables, chairs or shelves, etc. If the scene is completely empty and no feature map can be formed, a map cannot be established and laser navigation is not suitable.

D1-01 Pro-S1

Intelligent navigation robot mobile platform



Product Details

01

The DT-01 Pro SLAM intelligent navigation robot is equipped with a single-line laser navigation module and is suitable for small payload operations under 120kg. It features laser mapping, laser positioning, path planning, perception and obstacle avoidance, collaboration, and interaction. It is primarily used in medium-sized industrial scenarios, the service industry, and education.



2D mapping



Autonomous Navigation

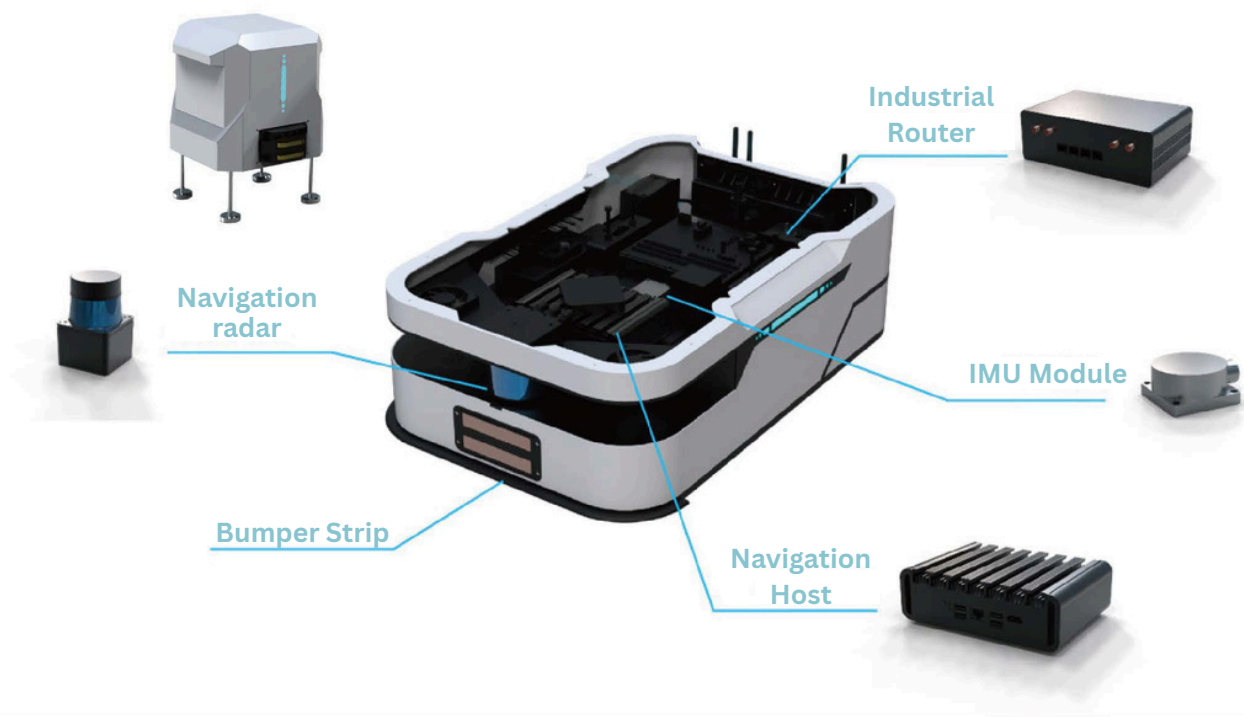


Automatic Recharge



Part Details

02





Product Features

03

Category	Detailed function explanation	
Function Support	Laser Mapping	The DT-01 Pro SLAM series intelligent navigation robot uses built-in positioning and mapping algorithms to build high-precision laser maps based on environmental information scanned by LiDAR. The laser mapping area can exceed 50,000 square meters.
	Intelligent Path planning	Utilizing LiDAR measurement data and path planning algorithms, the intelligent navigation robot mobile platform can achieve precise positioning and path planning, enabling point-to-point travel. In terms of path planning, it can achieve free navigation and trajectory mode (allowing the chassis to travel along a trajectory). Regular positioning accuracy can reach ± 30 mm, and end-point auxiliary positioning can reach ± 10 mm.
	Dynamic obstacle Detection and Avoidance	LiDAR can scan the environment in real time, detecting the location and movement of dynamic obstacles (such as people and other moving objects). Based on this information, the intelligent navigation robot mobile platform can perform dynamic obstacle avoidance to prevent collisions.
	Open Protocol for Secondary Development	The intelligent navigation mobile robot also supports data openness. Through the MQTT protocol/ModbusTCP protocol/TCP protocol, it can control the mobile robot's data status, target instruction execution and robot status information, facilitating user secondary development and rapid use.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	It supports use in scenes with feature points, such as offices, factories or office buildings with fixed objects, such as tables, chairs or shelves, etc. If the scene is completely empty and no feature map can be formed, a map cannot be established and laser navigation is not suitable.

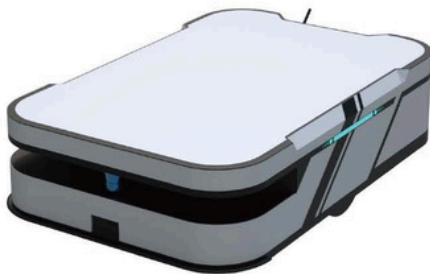
DT-02 Pro S1

Intelligent navigation robot mobile platform



Product Details

01



2D mapping



Autonomous Navigation

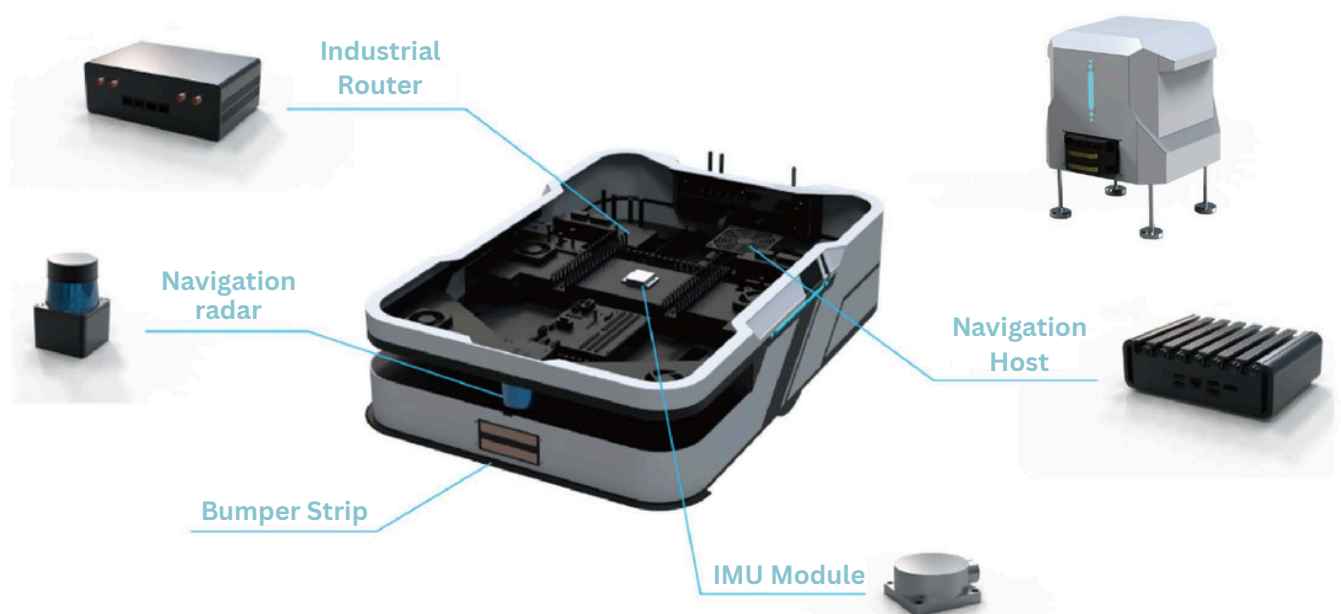


Automatic Recharge



Part Details

02





Product Features

03

Category	Detailed function explanation	
Function Support	Laser Mapping	The DT-02 Pro SLAM series intelligent navigation robot uses built-in positioning and mapping algorithms to build high-precision laser maps based on environmental information scanned by LiDAR. The laser mapping area can exceed 50,000 square meters.
	Intelligent Path planning	Utilizing LiDAR measurement data and path planning algorithms, the intelligent navigation robot mobile platform can achieve precise positioning and path planning, enabling point-to-point driving. In path planning, it can implement free navigation and trajectory mode, allowing the chassis to travel the trajectory. Conventional positioning accuracy can reach $\pm 30\text{mm}$, and end-assisted positioning can reach $\pm 10\text{mm}$.
	Dynamic obstacle Detection and Avoidance	LiDAR can scan the environment in real time, detecting the location and movement of dynamic obstacles (such as people and other moving objects). Based on this information, the intelligent navigation robot mobile platform can perform dynamic obstacle avoidance to prevent collisions.
	Open Protocol for Secondary Development	The intelligent navigation mobile robot also supports data openness. Through the MQTT protocol/ModbusTCP protocol/TCP protocol, it can control the mobile robot's data status, target instruction execution and robot status information, facilitating user secondary development and rapid use.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	It supports use in scenes with feature points, such as offices, factories or office buildings with fixed objects, such as tables, chairs or shelves, etc. If the scene is completely empty and no feature map can be formed, a map cannot be established and laser navigation is not suitable.

MK-01 SLAM

Intelligent navigation robot mobile platform



Product Details

01



The MK-01 SLAM Mecanum wheel intelligent navigation mobile robot offers advantages such as omnidirectional mobility, high-precision positioning, smooth motion, and efficient energy utilization. It is widely used in logistics and warehousing, service robotics, healthcare, scientific research, and education.



2D mapping



Autonomous Navigation



Automatic Recharge



Part Details

02



Navigation Host



Industrial Router



IMU



Navigation radar



MK-01 SLAM

Intelligent navigation robot mobile platform



Product Features

03

Category	Detailed function explanation	
Function Support	Laser Mapping	The MK-01 SLAM series intelligent navigation robot uses built-in positioning and mapping algorithms to build high-precision laser maps based on environmental information scanned by LiDAR. The laser mapping area can reach over 100,000 square meters.
	Intelligent Path planning	Utilizing LiDAR measurement data and path planning algorithms, the intelligent navigation robot mobile platform can achieve precise positioning and path planning, enabling point-to-point driving. In path planning, it can implement free navigation and trajectory mode, allowing the chassis to travel the trajectory. Conventional positioning accuracy can reach $\pm 40\text{mm}$, and end-assisted positioning can reach $\pm 10\text{mm}$.
	Dynamic obstacle Detection and Avoidance	LiDAR can scan the environment in real time, detecting the location and movement of dynamic obstacles (such as people and other moving objects). Based on this information, the intelligent navigation robot mobile platform can perform dynamic obstacle avoidance to prevent collisions.
	Open Protocol for Secondary Development	The intelligent navigation mobile robot also supports data openness. Through the MQTT protocol/ModbusTCP protocol/TCP protocol, it can control the mobile robot's data status, target instruction execution and robot status information, facilitating user secondary development and rapid use.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	It supports use in scenes with feature points, such as offices, factories or office buildings with fixed objects, such as tables, chairs or shelves, etc. If the scene is completely empty and no feature map can be formed, a map cannot be established and laser navigation is not suitable.

SEAROBOT-01

Intelligent navigation robot mobile platform



Product Details

01



The SeaRobot 01 series unmanned vehicle is a four-wheel, four-wheel drive autonomous mobile robot chassis for indoor and outdoor all-terrain use. It has functions such as 3D mapping, autonomous navigation, and pan-tilt monitoring. It is mainly aimed at outdoor off-road, agriculture, and park inspection scenarios.



2D mapping



Autonomous Navigation

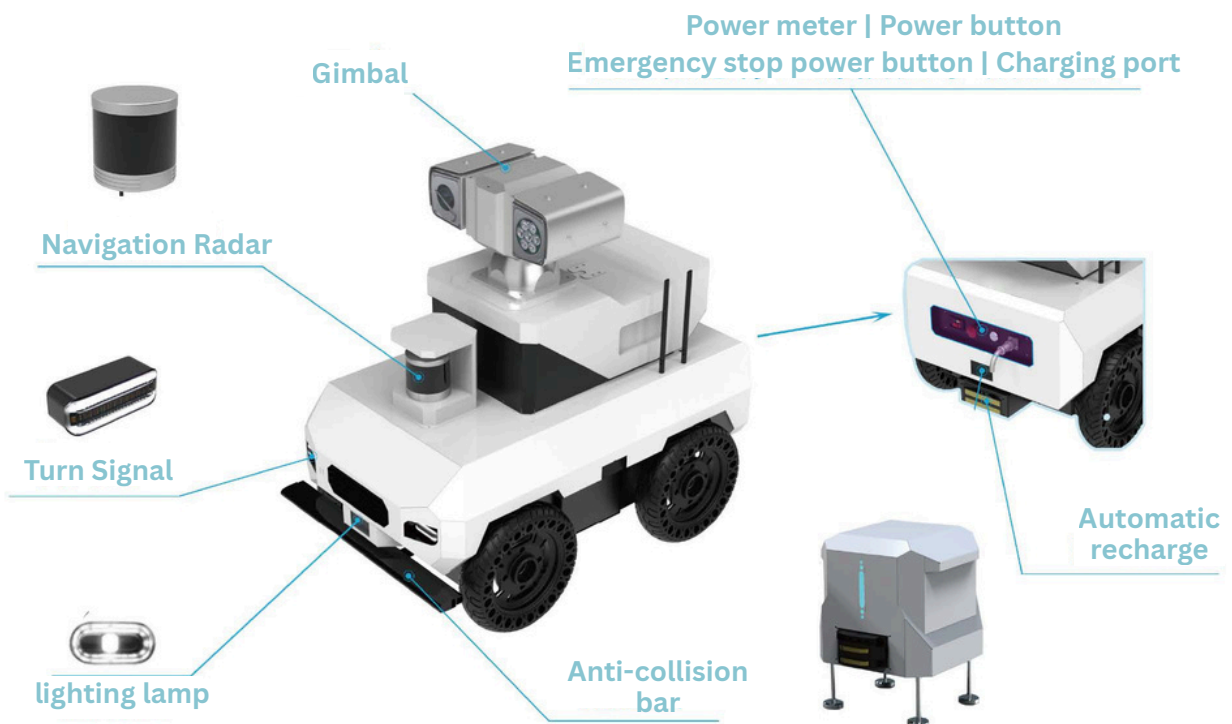


Automatic Recharge



Part Details

02



SEAROBOT-01

Intelligent navigation robot mobile platform



Product Parameter

03

Category	Detailed function explanation	
Function Support	Laser Mapping	The SeaRobot-01 series of intelligent navigation robots primarily support 3D laser navigation in indoor and outdoor environments. Through built-in positioning and mapping algorithms, they create high-precision laser maps. Laser mapping can cover areas exceeding 100,000 square meters.
	Intelligent Path planning	Using the measurement data of LiDAR and the path planning algorithm, the intelligent navigation robot mobile platform can achieve precise positioning and path planning, realize point-to-point driving, and realize free navigation and trajectory mode (let the chassis drive along the trajectory) in path planning. The conventional positioning accuracy can reach $\pm 50\text{mm}$.
	Dynamic obstacle Detection and Avoidance	LiDAR can scan the environment in real time, detecting the location and movement of dynamic obstacles (such as people and other moving objects). Based on this information, the intelligent navigation robot mobile platform can perform dynamic obstacle avoidance to prevent collisions.
	Open Protocol for Secondary Development	The intelligent navigation mobile robot also supports data openness. Through the MQTT protocol/ModbusTCP protocol/TCP protocol, it can control the mobile robot's data status, target instruction execution and robot status information, facilitating user secondary development and rapid use.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	It supports use in scenes with feature points, such as offices, factories or office buildings with fixed objects, such as tables, chairs or shelves, etc. If the scene is completely empty and no feature map can be formed, a map cannot be established and laser navigation is not suitable.

GT-01 R300

Outdoor all-terrain Multifunctional transportation robot platform



Product Details

01



The GT-01 RTK series outdoor all-terrain multi-purpose transport robot platform is a large tracked, wire-controlled chassis designed specifically for outdoor off-roading and agricultural applications. It supports high-precision RTK navigation, enabling users to efficiently dispatch the platform to perform specific tasks. Its design is widely applicable to agriculture, gardening, and other outdoor operations.



Intelligent Shutdown



RTK navigation



Heavy load



Part Details

02



GT-01 R300

Outdoor all-terrain Multifunctional transportation robot platform



Product Parameter

03

Category	Detailed function explanation	
Function Support	RTK High-Precision Navigation	The GT-01 series outdoor all-terrain multi-functional transport robot platform is equipped with an RTK high-precision navigation system, which can provide centimeter-level positioning accuracy in open outdoor environments, ensuring the robot's efficient operation and accurate path planning in complex terrain.
	Intelligent Path planning	Using the measurement data of LiDAR and the path planning algorithm, the intelligent navigation robot mobile platform can achieve precise positioning and path planning, realize point-to-point driving, and realize free navigation and trajectory mode (let the chassis drive along the trajectory) in path planning. The conventional positioning accuracy can reach $\pm 10\text{mm}$
	Dynamic obstacle Detection and Avoidance	LiDAR can scan the environment in real time, detecting the location and movement of dynamic obstacles (such as people and other moving objects). Based on this information, the intelligent navigation robot mobile platform can perform dynamic obstacle avoidance to prevent collisions.
	Open Protocol for Secondary Development	The robot supports data openness and controls the status information and command execution of the mobile robot through the MQTT protocol/Modbus TCP protocol, making it easy for users to carry out secondary development and quickly adapt to different application requirements.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	It supports use in scenes with feature points, such as offices, factories or office buildings with fixed objects, such as tables, chairs or shelves, etc. If the scene is completely empty and no feature map can be formed, a map cannot be established and laser navigation is not suitable.

GT-01 U300

Outdoor all-terrain Multifunctional transportation robot platform



Product Details

01



The GT-U300 intelligent follow-up crawler transporter is an intelligent handling platform designed specifically for industrial and agricultural labor collaboration scenarios. It uses dual brushless servo motors to independently drive the crawler system, is equipped with an intelligent following module and an all-round ultrasonic obstacle avoidance array, and is suitable for operations in unstructured terrain such as farmland and orchards.



Autonomous following



Intelligent Shutdown

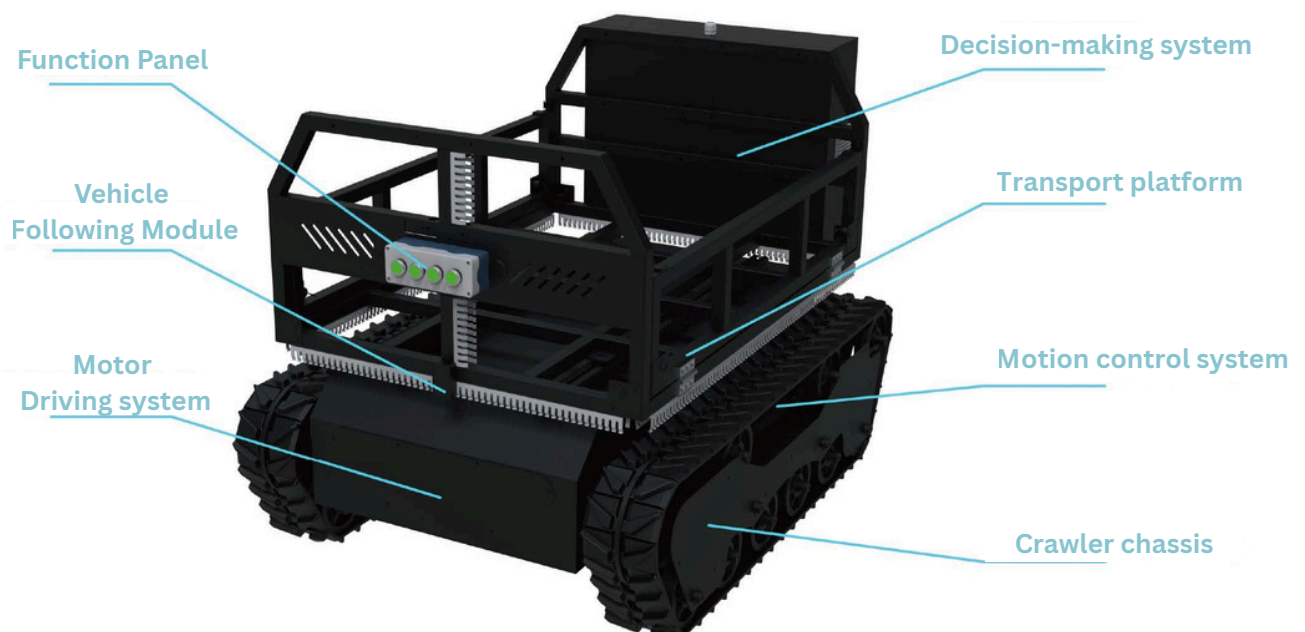


Heavy load



Part Details

02



GT-01 U300

Outdoor all-terrain Multifunctional transportation robot platform



Product Features

03

Category	Detailed function explanation	
Function Support	Automatic tracking technology	Integrated with intelligent automatic tracking technology, equipped with an on-board tracking module and a handheld remote control tag, the robot can perform angle turns and automatic tracking based on the handheld tag, making it suitable for a variety of outdoor task scenarios.
	All-weather operation design	IP65 protection rating, operating temperature range of -10°C to 60°C, ensuring continuous operation in harsh environments such as rainy weather and high temperatures. Waterproof and mud-resistant track design allows for operation in heavy rain, ensuring that farming is not delayed.
	Remote control follow dual control mode	Supports manual takeover of remote control mode, barrier-free 100-metre remote control, and also supports close-range follow mode to adapt to different outdoor task scenarios.
	Intelligent collision protection	Integrated with ultrasonic obstacle avoidance close-range detection and emergency stop button, it features automatic deceleration when encountering obstacles and manual emergency braking, ensuring user safety.
	Customized operations	The intelligent navigation robot mobile platform supports customized operations and can be customized according to user needs and scenarios. For example, it can set restricted areas in specific areas, prioritize avoiding specific obstacles, and automatically recharge when the battery is low.
	Usage Scenarios	Provides standard mechanical/electrical interfaces, supporting quick installation of agricultural operation modules such as pesticide spraying systems and material transport boxes. Meets all needs from sowing to harvest.