



AE-X330 Quadcopter

Full Specifications Table

Key Features

- Frame Configuration: X Configuration
- Arm Length: 330mm Diagonal Motor Shaft Distance
- Onboard Computer: Intel NUC / Jetson Xavier/ Jetson Nano/ RasPi 4B
- Power: 6000mAh, 4S Lithium Battery
- Motor: KV2500 Up to 1.38kg/motor
- Flight Duration: 15-20min

Avionics

Onboard Computer Intel NUC/Jetson Xavier/Jetson Nano/RasPi 4B

Navigation IMU, GPS, RGB Vision, Infrared Depth Vision, Height Laser

Autopilot Pixhawk Series Autopilot, Redundant IMU, Redundant Power Source, RTOS

Flight Mode Manual, Altitude Control, Position Control, Off-board, Autonomous (use in GPS environment)

Power Specification Battery: 6000mAh 4S Lithium Battery

Thrust Motor: KV2500 Up to 1.38kg/motor
Propeller: 6 in

Flight Performance Take-off Weight: 1.5kg (w/o payload)
Flight Time: 15-20min



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AE-X350 Quadcopter

Full Specifications Table

Key Features

- Frame Configuration: X Configuration
- Arm Length: 350mm Diagonal Motor Shaft Distance
- Onboard Computer: Intel NUC / Jetson Xavier/ Jetson Nano/ RasPi 4B
- Power: 9000mAh, 6S Lithium Battery
- Motor: KV1300
- Flight Duration: 15-20min

Avionics

Onboard Computer Intel NUC/Jetson Xavier/Jetson Nano/RasPi 4B

Navigation IMU, GPS, RGB Vision, UWB, Stereo Vision, Infrared Depth Vision, Height Laser, 3D/2D lidar

Autopilot Pixhawk Series Autopilot, Redundant IMU, Redundant Power Source, RTOS

Flight Mode Manual, Altitude Control, Position Control, Off-board, Autonomous (use in GPS environment)

Power Specification Battery: 9000mAh, 6S Lithium Battery

Thrust Motor: KV1300
Propeller: 7 in

Flight Performance Take-off Weight: 2.0kg (w/o payload)
Flight Time: 15-20min



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AE-Q400A Quadcopter Platform

Full Specifications Table

Key Features

- Frame Type: X Configuration
- Arm Length: 400mm Diagonal Motor Shaft Distance
- Onboard Computer: Intel NUC / Jetson Xavier/ Jetson Nano/ RasPi 4B
- Power: 9000mAh, 4S Lithium Battery
- Motor: KV880 Up to 1.2kg/motor
- Flight Duration: 20min

Avionics

Onboard Computer	Intel NUC/Jetson Xavier/Jetson Nano/RasPi 4B
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Navigation	IMU, GPS, Vision, UWB
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Autopilot	Pixhawk Series Autopilot, Redundant IMU, Redundant Power Source, RTOS
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Flight Mode	Manual, Altitude Control, Off-board, Autonomous (use in GPS environment)
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Power Specification	Battery: 9000mAh, 4S Lithium Battery
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Thrust	Motor: KV880 Up to 1.2kg/motor Propeller: 9 in
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Flight Performance	Take-off Weight: 1.8kg (w/o payload) Flight Time: 20min
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AE-Q550 Quadcopter

Customizable Platform

Full Specifications Table

Key Features

- Frame Type: Carbon Fibre Frame
- Arm Length: 550mm (520~600mm)
- Landing Gear: Soft Buffer
- Optional Frame Protector
- Power: 10Ah 6S LiPo Battery
- Motor: KV380

Applications

- Building Inspection
- Power Grid Inspection
- Tunnel Inspection
- Surveillance

Avionics

Height Sensor: 40m/120m lidar
Autopilot: RTOS Autopilot
Telemetry on autopilot: 915MHz/433MHz/WIFI
RC receiver: up to 1km line of sight
ESC: 4in1 ESC 40A
Navigation computer: Intel NUC/customized board
Navigation computer data link: WIFI module
Localization sensor: GPS/RTK GPS/Ultra-Wide Band RF module/laser scanner/motion capturing system

Power Specification

Battery Type: Up to 10Ah 6S LiPo battery

Thrust

Motor Type: Brushless
Propeller Size: 13 in / 14 in

Flight Performance

Maximum Payload: Up to 2kg
Maximum Flight Duration: 30min



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AE-H16 Heavy Duty Hexacopter Platform

Full Specifications Table

Key Features

- Frame Type: Hexacopter Frame
- Arm length: 1600mm
- Onboard Computer: Linux based system with ROS integrated
- Power: 22000mAh, 6S, 25C Lithium Polymer battery (option to double capacity as 44000mAh)
- Motor: KV150, thrust up to 4.8kg per motor
- Flight Duration: 46min w/o power from tether system/ unlimited with power from tether system

Avionics

Onboard Computer	x86 architecture CPU, Built-in graphic card, SSD Storage, Linux based system with ROS integrated
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Navigation	M8N GPS Lidar range finder for height up to 40m Integrated IMU triple redundancies
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Autopilot	Aerise customized firmware with Pixhawk based autopilot, Triple IMU redundancies, Triple power redundancies, Dual redundant barometric pressure sensor, Dual redundant compass sensor, RTOS
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AE-H16 Heavy Duty Hexacopter Platform

Full Specifications Table

Avionics

Flight Mode

GPS

Altitude Mode

Dual controller capability (1 master, 1 slave)

Customizable gimbal for different payload

Built-in obstacle avoidance system: 360 degree

Power

Specification

Battery Type: 22000mAh, 6S, 25C Lithium

Polymer battery (option to double capacity as 44000mAh)

Thrust

Motor: thrust up to 4.8kg per motor, KV150

Propeller: 2892 carbon fiber propeller

Flight

Performance

Weight w/o payload: Min 8kg

Weight with payload: > 8kg < 17kg

Camera and

Gimbal System

Output format: GigE

Control interface: UART, S.Bus

Sensor: 1/2.8 CMOS



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AE-V7-2300 VTOL Aircraft

Full Specifications Table

Key Features

- Frame Type: Fixed Wing
- Carbon fiber fuselage, case weight 2kg
- Multiple battery cell configurable (6S / 12S)
- High efficiency, support EPP transport box
- Plug and Play Feature

Avionics

Specification

Configuration: 4+1 VTOL Fixed Wing
Material: Carbon Fiber
Wingspan: 2300mm
Length: 1250mm
Max Takeoff Weight: 9kg(6S), 12.5kg(12S)
Max Mission Payload: 2.5kg
Max Speed: 35m/s
Cruise Speed: 18-20m/s
Max Altitude: 4500m
Empty Payload Flight Time: 240min
Max Endurance: 240km
Wind Resistance: Level 5
Battery: 6S 32Ah or 12S 27Ah
Packing Size (L*W*H): 1220*320*300 (mm)

Plug and Play Feature

Many possible payloads: Survey Sensor, Tracking Payload, etc.
Quick Release, Safety Plug, Quick flat tail install, payload chamber



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AE-V9-2300 VTOL Aircraft

Full Specifications Table

Key Features

- Carbon fiber fuselage
- Arm Length: 2300mm wingspan, 1150mm length
- A single set of 12S battery can perform an aerial survey for 4 hours
- Specially Designed for Aerial survey operations
- Quick disassembly without tools, Plug and Play Feature

Avionics

Specification

Configuration: 4+1 VTOL Fixed Wing
Material: Carbon Fiber
Max Takeoff Weight: 12.5kg
Max Mission Payload: 2.5kg
Max Speed: 35m/s
Cruise Speed: 18-20m/s
Max Altitude: 4500m
Empty Payload Flight Time: 240min
Max Endurance: 240km
Wind Resistance: Level 5
Battery: 12S 27Ah
Packing Size (L*W*H): 1220*320*300 (mm)

Plug and Play Feature

Many possible payloads: Survey Sensor, Tracking Payload, etc.
Quick Release, Safety Plug, Quick flat-tail installation, payload chamber



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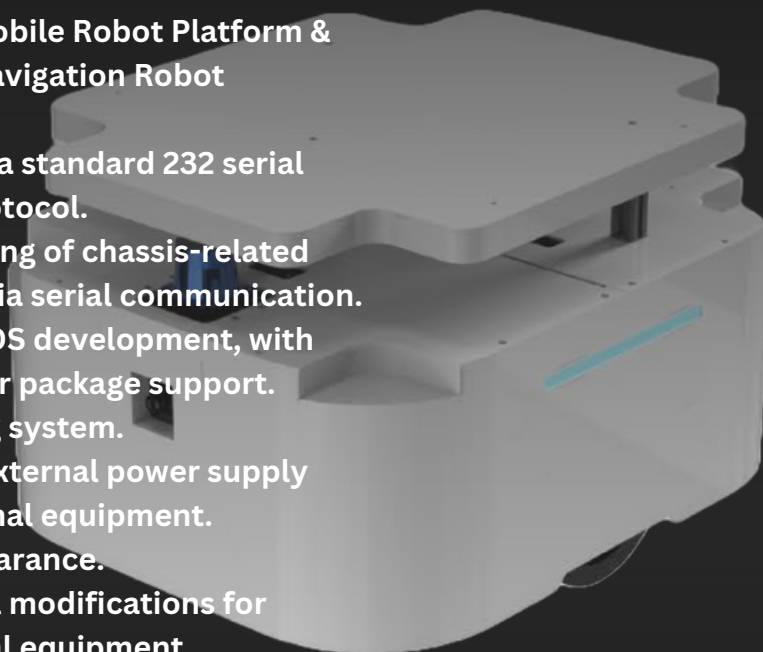


DT Series General Mobile Robot Platform DT-01

Full Specifications Table

Key Features

- 2 Types: General Mobile Robot Platform & SLAM Intelligent Navigation Robot Platform.
- Supports control via standard 232 serial communication protocol.
- Allows for the reading of chassis-related data and statuses via serial communication.
- Compatible with ROS development, with available ROS driver package support.
- Automatic charging system.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Two-wheel drive with differential steering, capable of in-place rotation
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Dimensions	500*420*310 (L*W*H) (mm)
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Speed	1.3m/s
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Load Capacity	50kg
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Battery Life	3h
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Battery Capacity	24V 12Ah
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Applicable Terrain	Suitable for indoor flat and moderately rough hard surfaces, such as those found in factories, shopping malls, and courtyards
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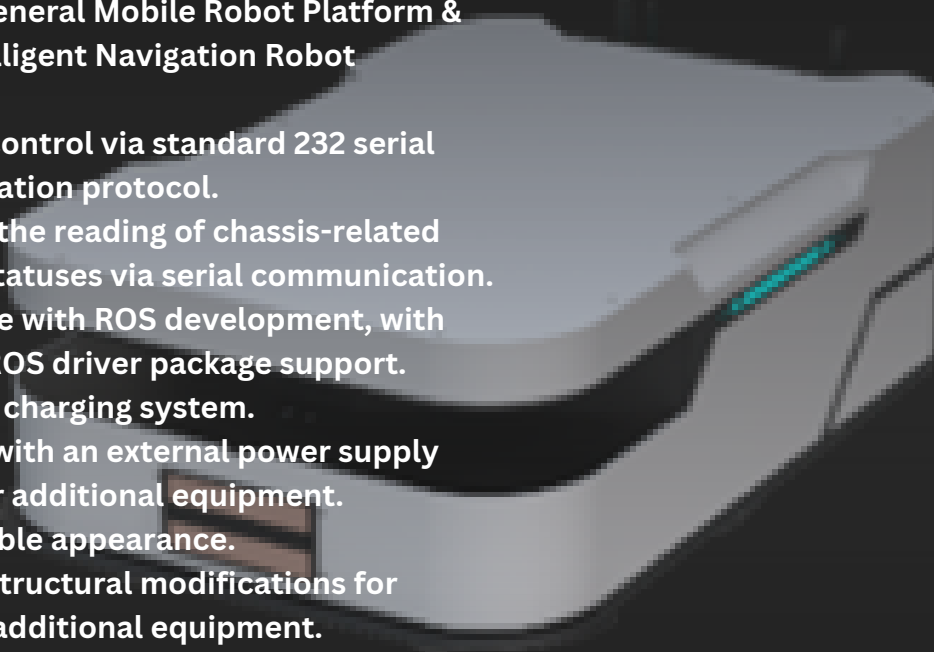


DT Series General Mobile Robot Platform DT-01 Pro

Full Specifications Table

Key Features

- 2 Types: General Mobile Robot Platform & SLAM Intelligent Navigation Robot Platform.
- Supports control via standard 232 serial communication protocol.
- Allows for the reading of chassis-related data and statuses via serial communication.
- Compatible with ROS development, with available ROS driver package support.
- Automatic charging system.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Two-wheel drive with differential steering, capable of in-place rotation
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Dimensions	730*460*260 (L*W*H) (mm)
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Speed	1.5m/s
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Load Capacity	120kg
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Battery Life	>4h
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Battery Capacity	24V 20Ah
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Applicable Terrain	Suitable for indoor flat and moderately rough hard surfaces, such as those found in factories, shopping malls, and courtyards
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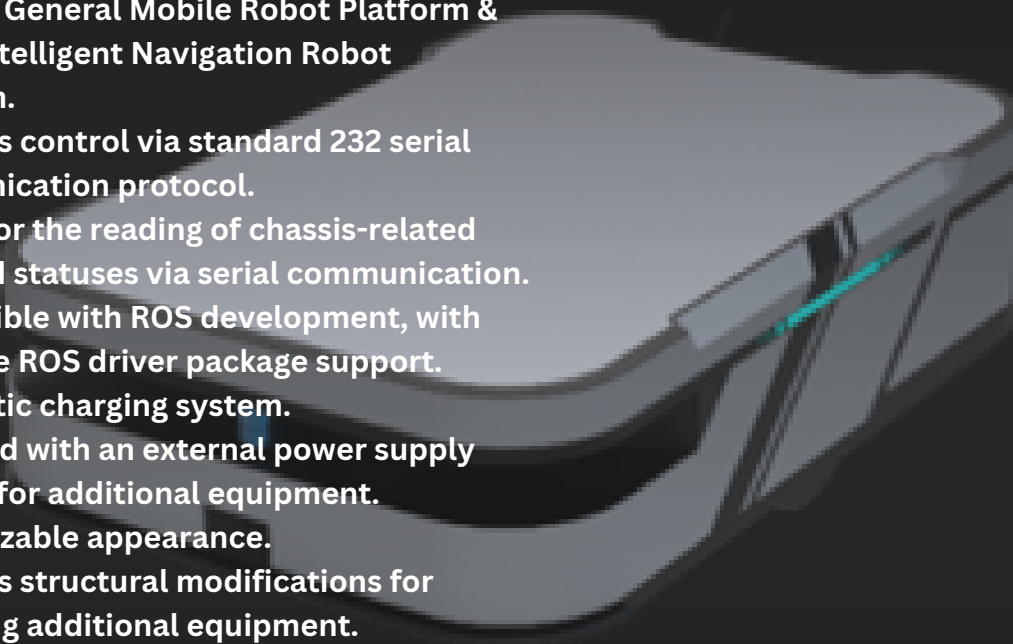


DT Series General Mobile Robot Platform DT-02 Pro

Full Specifications Table

Key Features

- 2 Types: General Mobile Robot Platform & SLAM Intelligent Navigation Robot Platform.
- Supports control via standard 232 serial communication protocol.
- Allows for the reading of chassis-related data and statuses via serial communication.
- Compatible with ROS development, with available ROS driver package support.
- Automatic charging system.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Two-wheel drive with differential steering, capable of in-place rotation
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Dimensions	980*670*268 (L*W*H) (mm)
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Speed	1.2m/s
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Load Capacity	300kg
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Battery Life	>3h
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Battery Capacity	48V 20Ah
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Applicable Terrain	Suitable for indoor flat and moderately rough hard surfaces, such as those found in factories, shopping malls, and courtyards
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PT Series General Mobile Robot Platform PT-01 Pro

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Supports control via standard 232 serial communication protocol.
- Allows for the reading of chassis-related data and statuses via serial communication.
- Compatible with ROS development, with available ROS driver package support.
- Automatic charging system.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Four-wheel drive with differential steering, capable of in-place rotation
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Dimensions	995*615*435 (L*W*H) (mm)
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Speed	1.2m/s
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Load Capacity	80kg
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Battery Life	2h
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Battery Capacity	48V 20Ah
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Quick Battery Replacement	Supported
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Applicable Terrain	Suitable for both indoor and outdoor environments, including urban roads, agricultural fields, gravel mountain paths, and mixed environments.
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PT Series General Mobile Robot Platform PT-03

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Supports control via standard 232 serial communication protocol.
- Allows for the reading of chassis-related data and statuses via serial communication.
- Compatible with ROS development, with available ROS driver package support.
- Automatic charging system.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Four-wheel drive with differential steering, capable of in-place rotation
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Dimensions	1575*1065*565 (L*W*H) (mm)
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Speed	1.5m/s
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Load Capacity	200kg
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Battery Life	>2h
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Battery Capacity	48V 40Ah
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Quick Battery Replacement	Supported
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Applicable Terrain	Suitable for both indoor and outdoor environments, including urban roads, agricultural fields, gravel mountain paths, and mixed environments.
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MT Series Ackermann Steering Robots MT-01

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.

Movement Mode	Front-steering rear-drive Ackermann low-mounted steering knuckle structure
Dimensions	1046*688*462 (L*W*H) (mm)
Speed	2.5m/s
Load Capacity	80kg
Battery Life	3h
Battery Capacity	24V 40Ah
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.



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MT Series Ackermann Steering Robots MT-04 Pro

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.

Movement Mode	Front-steering rear-drive Ackermann low-mounted steering knuckle structure
Dimensions	1535*810*465 (L*W*H) (mm)
Speed	2.4m/s
Load Capacity	200kg
Battery Life	2-3h
Battery Capacity	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.



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MT Series Ackermann Steering Robots ET-01

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.

Movement Mode	Front-steering rear-drive Ackermann low-mounted steering knuckle structure
Dimensions	1365*848*488 (L*W*H) (mm)
Speed	5m/s
Load Capacity	150kg
Battery Life	2-3h
Battery Capacity	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.



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HT Series Omnidirectional Steering Robots HT-01 Mini

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Four-wheel, eight-drive omnidirectional steering with in-place rotation and Ackermann mode.
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Dimensions	710*490*385 (L*W*H) (mm)
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Speed	2.0m/s
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Load Capacity	120kg
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Battery Life	2h
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Battery Capacity	48V 15Ah
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Movement Mode Switching	Spin, Traverse, Tilt, Ackerman
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Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as: urban roads, agricultural fields, sandy mountain roads, indoor flat ground, etc.
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HT Series Omnidirectional Steering Robots HT-01

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Four-wheel, eight-drive omnidirectional steering with in-place rotation and Ackermann mode.
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Dimensions	1270*756*550 (L*W*H) (mm)
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Speed	1.5m/s
-------	--------

Load Capacity	240kg
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Battery Life	3h
--------------	----

Battery Capacity	48V 40Ah
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Movement Mode Switching	Spin, Traverse, Tilt, Ackerman
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Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as: urban roads, agricultural fields, sandy mountain roads, indoor flat ground, etc.
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HT Series Omnidirectional Steering Robots HT-03

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Four-wheel, eight-drive omnidirectional steering with in-place rotation and Ackermann mode.
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Dimensions	1500*1350*1250 (L*W*H) (mm)
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Speed	1.5m/s
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Load Capacity	300kg
---------------	-------

Battery Life	3h
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Battery Capacity	48V 40Ah
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Movement Mode Switching	Spin, Traverse, Tilt, Ackerman
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Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as: urban roads, agricultural fields, sandy mountain roads, indoor flat ground, etc.
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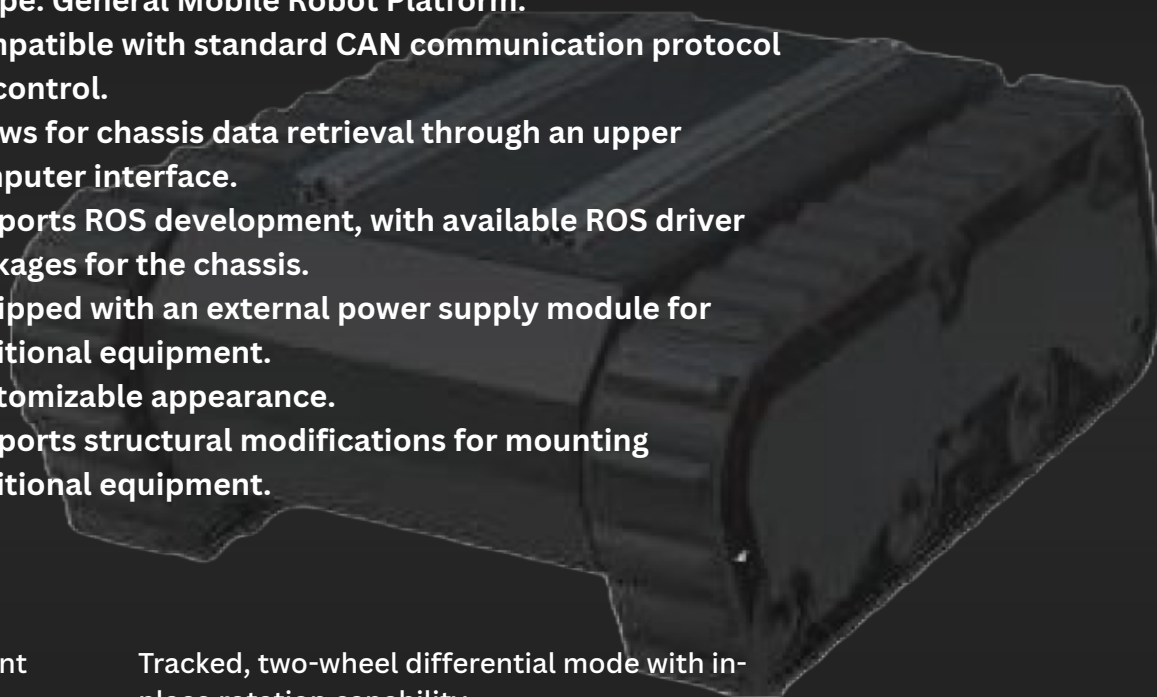


GT Series Ackermann Steering Robots GT-01 Mini

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Tracked, two-wheel differential mode with in-place rotation capability
Dimensions	895*600*328 (L*W*H) (mm)
Speed	1.2m/s
Load Capacity	50kg
Battery Life	>3h
Battery Capacity	48V 20Ah
Quick Battery Replacement	Supported
Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as farmland, forestry pastures, mountain mines, construction sites, etc.



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GT Series Ackermann Steering Robots GT-01

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Tracked, two-wheel differential mode with in-place rotation capability
Dimensions	1435*900*685(L*W*H) (mm)
Speed	1.4m/s
Load Capacity	300kg
Battery Life	>3h
Battery Capacity	48V 40Ah
Quick Battery Replacement	Supported
Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as farmland, forestry pastures, mountain mines, construction sites, etc.



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GT Series Ackermann Steering Robots GT-02

Full Specifications Table

Key Features

- 1 Type: General Mobile Robot Platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with available ROS driver packages for the chassis.
- Equipped with an external power supply module for additional equipment.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.

Movement Mode	Tracked, two-wheel differential mode with in-place rotation capability
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Dimensions	1682*1353*1326 (L*W*H) (mm)
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Speed	1.2m/s
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Load Capacity	200kg
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Battery Life	2h
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Battery Capacity	48V 50Ah
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Quick Battery Replacement	Supported
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Applicable Terrain	Indoor and outdoor scenes, suitable for various terrains such as farmland, forestry pastures, mountain mines, construction sites, etc.
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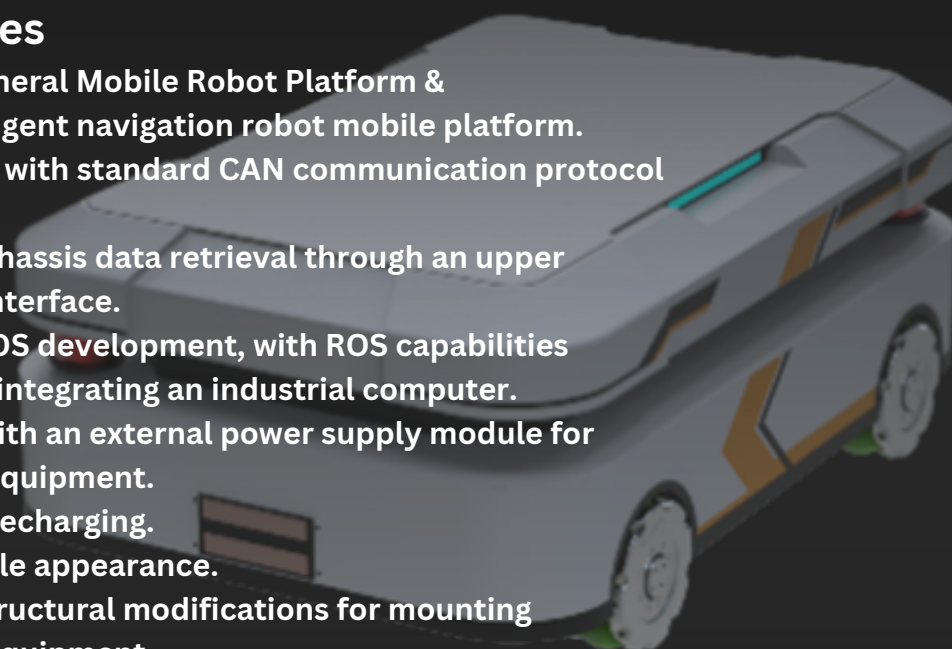
Specialized Mobile Robots

MK-01

Full Specifications Table

Key Features

- 2 Types: General Mobile Robot Platform & SLAM Intelligent navigation robot mobile platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with ROS capabilities enabled by integrating an industrial computer.
- Equipped with an external power supply module for additional equipment.
- Automatic recharging.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.



Movement Mode	Mecanum wheel omnidirectional chassis with in-place rotation capability.
Dimensions	807*512*474 (L*W*H) (mm)
Speed	1.2m/s
Load Capacity	200kg
Battery Life	3h
Battery Capacity	24V 40Ah
Applicable Terrain	Indoor conventional rough hard pavement: indoor factory area, indoor shopping mall, indoor campus.



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Specialized Mobile Robots

SeaRobot-01

Full Specifications Table

Key Features

- 2 Types: General Mobile Robot Platform & SLAM Intelligent navigation robot mobile platform.
- Compatible with standard CAN communication protocol for control.
- Allows for chassis data retrieval through an upper computer interface.
- Supports ROS development, with ROS capabilities enabled by integrating an industrial computer.
- Equipped with an external power supply module for additional equipment.
- Automatic recharging.
- Customizable appearance.
- Supports structural modifications for mounting additional equipment.

Movement Mode	Four-wheel drive supports on-the-spot rotation
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Dimensions	1030*615*688 (L*W*H) (mm)
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Speed	1.2m/s
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Load Capacity	80kg
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Battery Life	2h
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Battery Capacity	48V 20Ah
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Applicable Terrain	Indoor conventional rough hard pavement: indoor factory area, indoor shopping mall, indoor campus.
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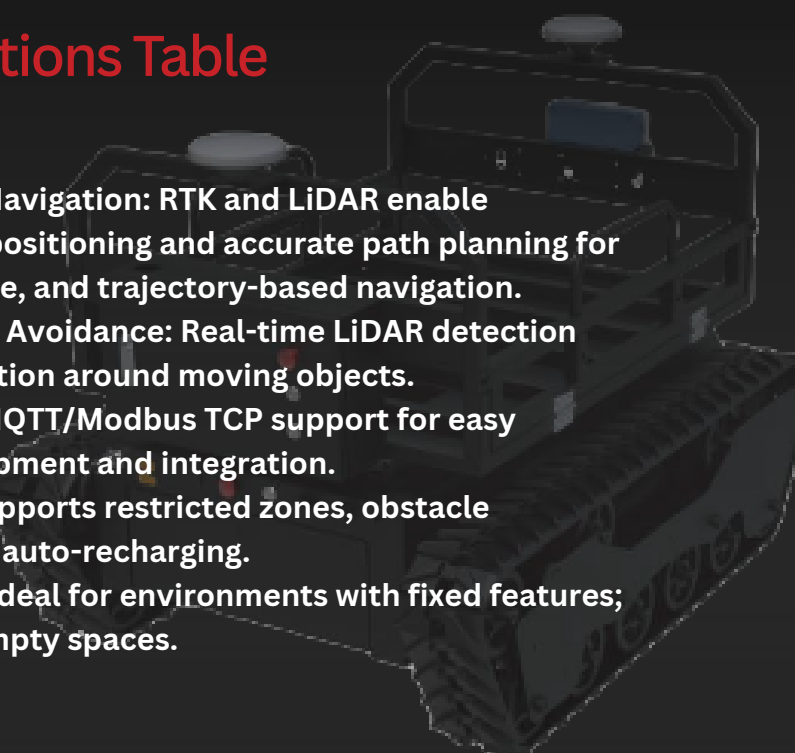


GT-01 R300

Full Specifications Table

Key Features

- **Laser Mapping & Navigation:** RTK and LiDAR enable centimeter-level positioning and accurate path planning for point-to-point, free, and trajectory-based navigation.
- **Dynamic Obstacle Avoidance:** Real-time LiDAR detection allows safe navigation around moving objects.
- **Open Protocols:** MQTT/Modbus TCP support for easy secondary development and integration.
- **Customization:** Supports restricted zones, obstacle prioritization, and auto-recharging.
- **Usage Scenarios:** Ideal for environments with fixed features; not suitable for empty spaces.



Dimensions 1465*1000*950 (L*W*H) (mm)

Maximum Speed 1.4m/s

Chassis Quality 250kg

Climbing Ability 30%

Obstacle course
(vertical steps) 12cm

Charging time 3h

Material Q235



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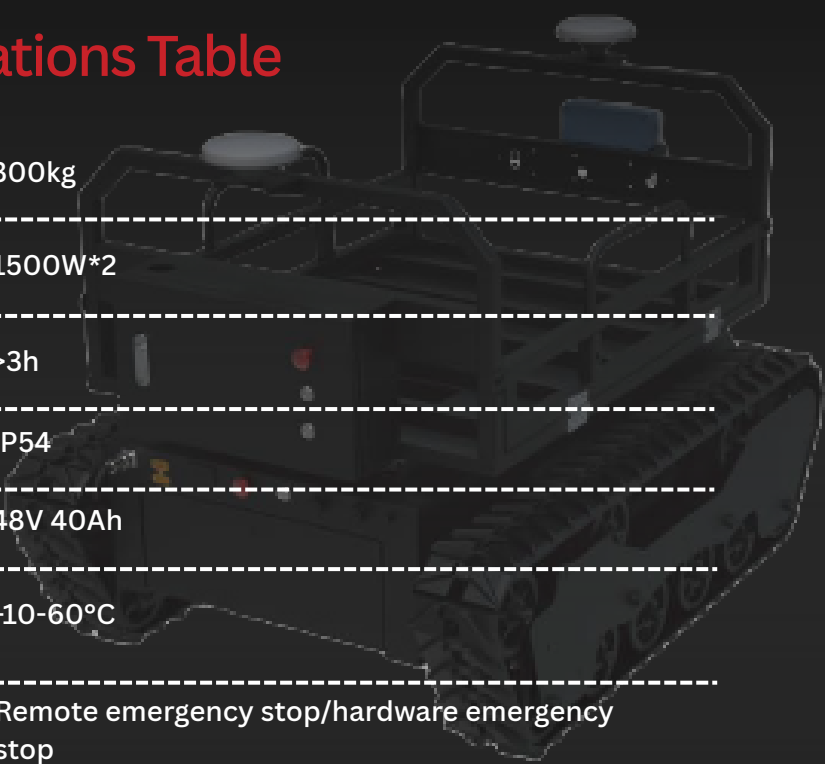


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GT-01 R300

Full Specifications Table



Vertical Load	300kg
Steering Motor Power	1500W*2
Theoretical range	>3h
Protection rating	IP54
Battery Capacity	48V 40Ah
Operating temperature	-10-60°C
Emergency Stop Method	Remote emergency stop/hardware emergency stop
Motor control accuracy	± 1rpm
Navigation Method	RTK Integrated Navigation
Navigation Accuracy	± 10cm
Navigation Protocol	MQTT



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GT-01 U300

Full Specifications Table

Key Features

- **Automatic Tracking:** Follows handheld tag for turns and automatic tracking.
- **All-Weather Operation:** IP65, -10°C–60°C, waterproof and mud-resistant.
- **Remote & Follow Modes:** 100 m remote control and close-range follow.
- **Collision Protection:** Ultrasonic detection and emergency stop for safety.
- **Customization:** Restricted zones, obstacle prioritization, auto-recharge.
- **Usage:** Quick installation of agricultural modules, supports full farm tasks.



Dimensions 1450*1000*950 (L*W*H) (mm)

Maximum Speed 1.4m/s

Chassis Quality 250kg

Climbing Ability 30%

Obstacle course
(vertical steps) 12cm

Charging time 3h

Material Q235



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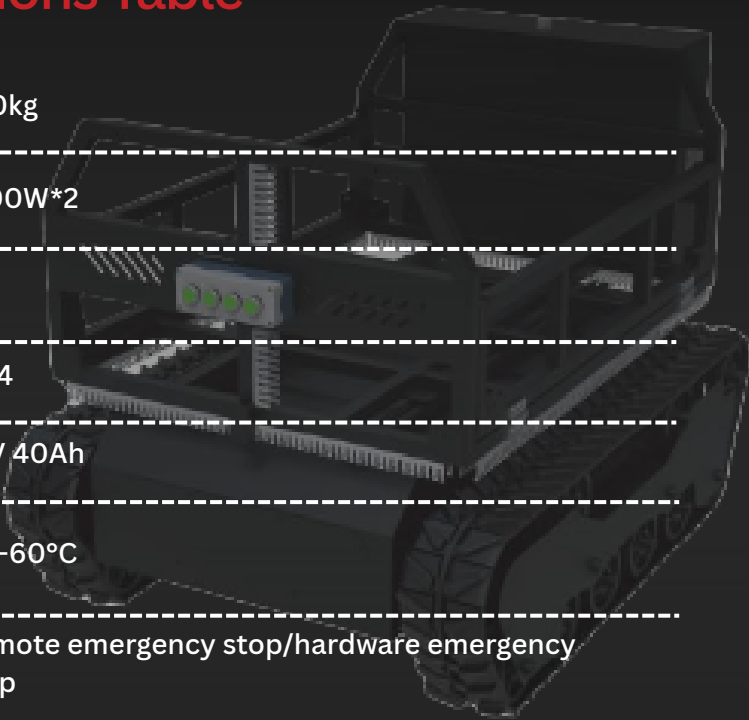


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GT-01 U300

Full Specifications Table



Vertical Load	300kg
Steering Motor Power	1500W*2
Theoretical range	>3h
Protection rating	IP54
Battery Capacity	48V 40Ah
Operating temperature	-10-60°C
Emergency Stop Method	Remote emergency stop/hardware emergency stop
Motor control accuracy	± 1rpm



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York-P1

Full Specifications Table

Key Features

- **Multiple mobility modes:** Four-wheel differential & Mecanum wheel omnidirectional mobility modes
- **Visual Tracking Autonomous Driving:** High-definition cameras and image processing algorithms to achieve visual tracking autonomous driving
- **Laser Radar Map Building:** Uses single-line laser radar technology to build high-precision two-dimensional maps in real time
- **Path Planning and Dynamic Obstacle Avoidance:** Uses laser radar data for environmental analysis and optimal path calculation
- **Depth Camera Algorithm Recognition:** Integrated cutting-edge computer vision and Depth Vision
- **Visual and Lidar Fusion Navigation:** Fuses visual and radar data to construct a three-dimensional colour map

Movement Mode	Four-wheel differential motion mode (rubber wheel) Mecanum wheel omnidirectional motion mode (Mecanum wheel)
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Dimensions	390*310*336(L*W*H) (mm)
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Maximum Speed (Empty Load)	1m/s
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Self-weight	6.5kg
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Navigation method	2D SLAM laser navigation
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Positioning accuracy	±5cm
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York-P1

Full Specifications Table

Battery Capacity 12V 10Ah

Control Mode Serial communication

Supported Systems Ros, Ubuntu

Sensors and accessories
Single-line 2D laser radar
RK3588 main control board
IMU module
Depth camera
Scene sandbox (optional)
9.7-inch display screen
Packaging box
Model aircraft remote control



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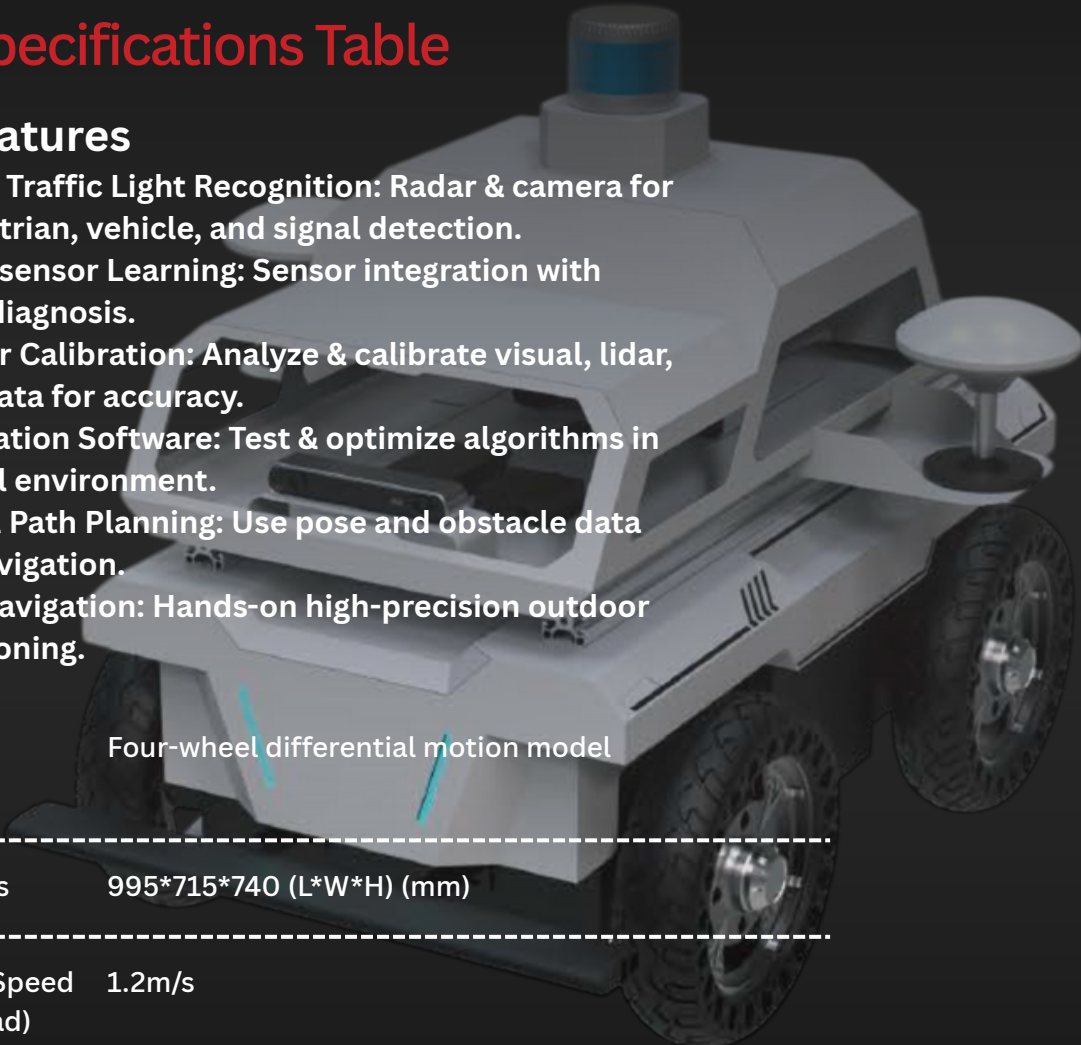


AMR-P1

Full Specifications Table

Key Features

- **Smart Traffic Light Recognition:** Radar & camera for pedestrian, vehicle, and signal detection.
- **Multi-sensor Learning:** Sensor integration with fault diagnosis.
- **Sensor Calibration:** Analyze & calibrate visual, lidar, IMU data for accuracy.
- **Simulation Software:** Test & optimize algorithms in virtual environment.
- **Map & Path Planning:** Use pose and obstacle data for navigation.
- **RTK Navigation:** Hands-on high-precision outdoor positioning.



Movement Mode	Four-wheel differential motion model
Dimensions	995*715*740 (L*W*H) (mm)
Maximum Speed (Empty Load)	1.2m/s
Chassis Load	80kg
Self-weight	80kg
Climbing Ability (unladen)	15°
Obstacle course (vertical steps)	10cm
Navigation Method	3D SLAM laser navigation, RTK navigation



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AMR-P1

Full Specifications Table

Positioning accuracy $\pm 10\text{cm}$

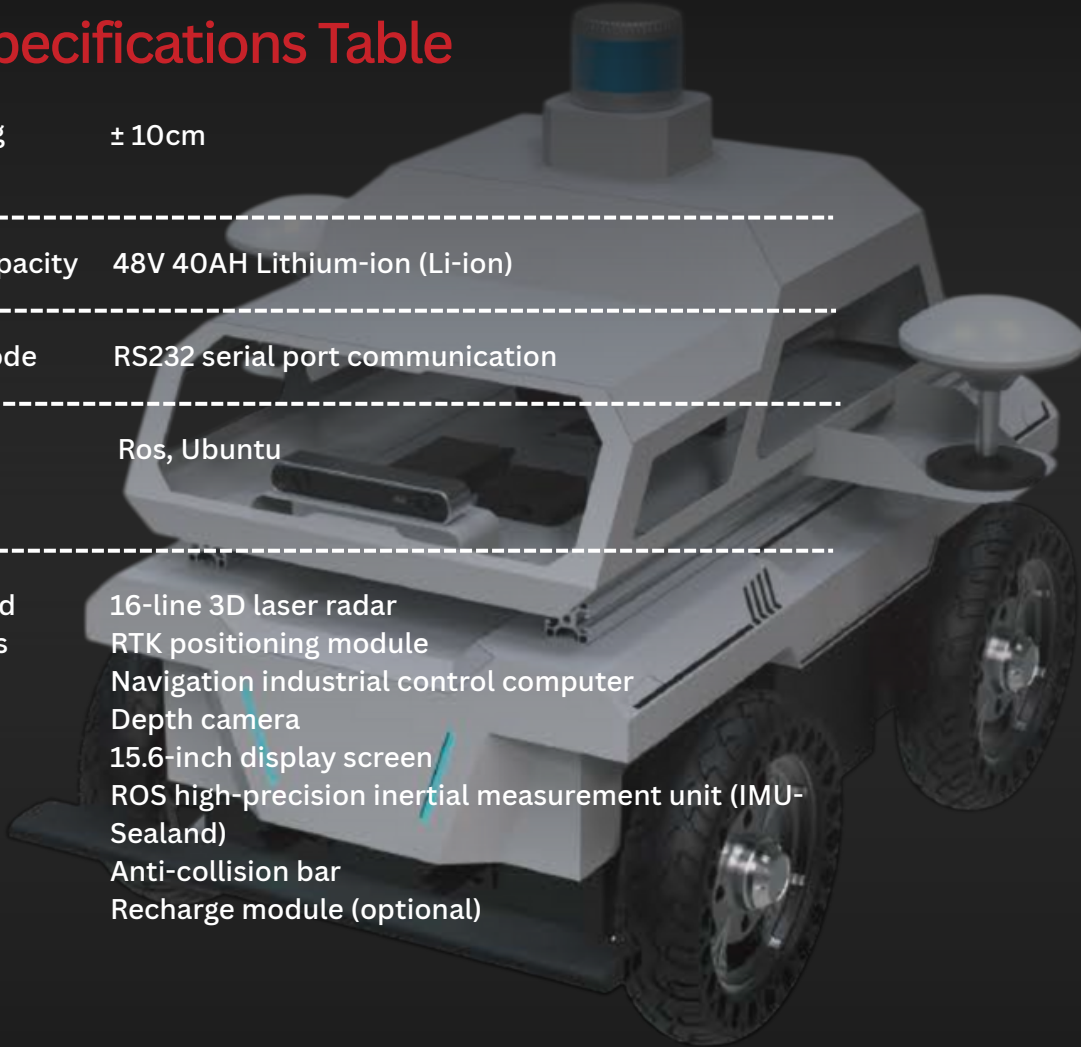
Battery Capacity 48V 40AH Lithium-ion (Li-ion)

Control Mode RS232 serial port communication

Supported Systems Ros, Ubuntu

Sensors and accessories

- 16-line 3D laser radar
- RTK positioning module
- Navigation industrial control computer
- Depth camera
- 15.6-inch display screen
- ROS high-precision inertial measurement unit (IMU-Sealand)
- Anti-collision bar
- Recharge module (optional)



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AMR-M1

Full Specifications Table

Key Features

- **Smart Traffic Light Recognition:** Radar & camera for pedestrian, vehicle, and signal detection.
- **Multi-sensor Learning:** Sensor integration with fault diagnosis.
- **Sensor Calibration:** Analyze & calibrate visual, lidar, IMU data for accuracy.
- **Autonomous Driving Simulation Software:** Safe virtual testing to optimize algorithms and verify functions.
- **Map & Path Planning:** Use pose and obstacle data for navigation.
- **RTK Navigation:** Hands-on high-precision outdoor positioning.

Movement Mode Ackerman front-to-rear wheel drive

Dimensions 1535*810*465 (L*W*H) (mm)

Maximum Speed (Empty Load) 2.4m/s

Chassis Load 200kg

Self-weight 110kg

Climbing Ability (unladen) 20%

Obstacle course (vertical steps) 8cm

Navigation Method 3D SLAM laser navigation, RTK navigation



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AMR-M1

Full Specifications Table

Positioning accuracy $\pm 10\text{cm}$

Battery Capacity 48V 20Ah Lithium-ion (Li-ion)

Control Mode CAN communication

Supported Systems Ros, Ubuntu

Sensors and accessories 16-line 3D laser radar
RTK positioning module
Navigation industrial control computer
Depth camera
15.6-inch display screen
ROS high-precision inertial measurement unit (IMU-Sealand)
Anti-collision bar



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AMR Sensor-M1

Full Specifications Table

Key Features

- **Smart Traffic Light Recognition:** Radar & camera for pedestrian, vehicle, and signal detection.
- **Multi-sensor Learning:** Sensor integration with fault diagnosis.
- **Sensor Calibration:** Analyze & calibrate visual, lidar, IMU data for accuracy.
- **Autonomous Driving Simulation Software:** Safe virtual testing to optimize algorithms and verify functions.
- **Map & Path Planning:** Use pose and obstacle data for navigation.
- **Extensive Teaching Resources:** Learn ROS & Autoware, develop sensor systems, and enhance programming through real-vehicle practice.

Movement Mode Ackerman front-to-rear wheel drive

Dimensions 1560*890*1541 (L*W*H) (mm)

Maximum Speed 8km/h

Self-weight 200kg

Vertical Load 200kg

Maximum Climbing angle 10% (fully loaded)

Navigation Method 3D SLAM laser navigation, RTK navigation

Positioning accuracy $\pm 10\text{cm}$



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AMR Sensor-M1

Full Specifications Table

Battery Capacity 48V 40Ah

Control Mode CAN communication

Supported Systems Ros, Ubuntu

Sensors and accessories

- 16-line 3D laser radar
- RTK positioning module
- Ultrasonic module
- Millimeter wave radar
- Infrared array radar (optional)
- Navigation industrial control computer
- Monocular camera
- 15.6-inch display screen
- ROS high-precision inertial measurement module (IMU-Sealand)
- Anti-collision bar



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CMR-D1

Full Specifications Table

Key Features

- **Laser Mapping and Obstacle Avoidance:** Large-scale indoor mapping and dynamic obstacle avoidance.
- **High-precision Navigation:** $\pm 5\text{cm}$ positioning accuracy and path planning
- **Robotic Arm Gripping:** Equipped with robotic arm control gripping and open ROS interface functionality
- **Multi-Source Data Closed-Loop:** IMU/odometer/voltage real-time feedback
- **Low Battery Automatic Recharging:** Fixed charging position and low battery trigger condition settings
- **Standard Protocols and Data Communication:** Provides navigation and robotic arm interface control and open protocols

Product Technical Parameters:

Dimensions: 500*420*310 (L*W*H) (mm)
 Chassis Weight: 35kg
 Materials: Q235
 Vertical Load: 50kg
 Encoder line count: 4096 Lines
 Protection Rating: IP22
 Operating Temperature: -10-60°C
 Charging Time: <3h
 Motor Power: 60W*2
 Motor Type: Hub motor (brushless DC)
 Maximum Speed: 1.3m/s
 Theoretical Battery Life: 3h
 Battery Capacity: 24V 20AH (lithium battery, expandable)
 External Power Supply: 24V/19V/12v
 Emergency Stop Method: Remote emergency stop/hardware emergency stop/software emergency stop
 System Support: ROS/WIN/UBUNTU
 Navigation Method: Laser navigation (2D SLAM)
 Navigation Accuracy: $\pm 50\text{mm}$
 Navigation Protocol: MQTT
 Remote Control Mode: 2.4G RC Model Remote Control



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CMR-D1

Full Specifications Table

Product Technical Parameters: Obstacle Avoidance Method: Supports obstacle detection and obstacle avoidance
Navigation Mode: Point-to-point, predetermined route, trajectory, etc.
Turning Radius: Rotate in place (0°)
Auxiliary Positioning Accuracy: $\pm 10\text{mm}$

Robotic Arm Parameters: Working radius: 626mm
Payload: 1.5kg
Material/Body weight: Aluminum alloy + plastic shell/4.2KG
Repeatable Accuracy: $\pm 0.1\text{mm}$
Terminal Velocity: $\leq 2\text{m/s}$
Power consumption: Maximum power consumption $\leq 120\text{W}$, comprehensive power consumption $\leq 40\text{W}$
Control method: Drag teaching/offline trajectory/API/host computer
Noise: $< 60\text{db}$
Power supply: DC24V (24V-26V)
Protection rating: IP54
Communication: CAN
Working environment: $-20\text{--}50^{\circ}\text{C}$, humidity: 25%-85%, non-condensing

Robotic Jaw Parameters: Weight: 0.5kg
Accuracy: $\pm 0.5\text{mm}$
Opening and closing distance: 0-70mm
Rated clamping force: 40N
Maximum clamping force: 50N
Supply voltage: DC24V
Power consumption: Maximum power consumption $\leq 50\text{W}$, Total power consumption $\leq 30\text{W}$
Self-locking: Not supported
Contact surface material: Rubber
External interface: Power interface*1, CAN interface*1



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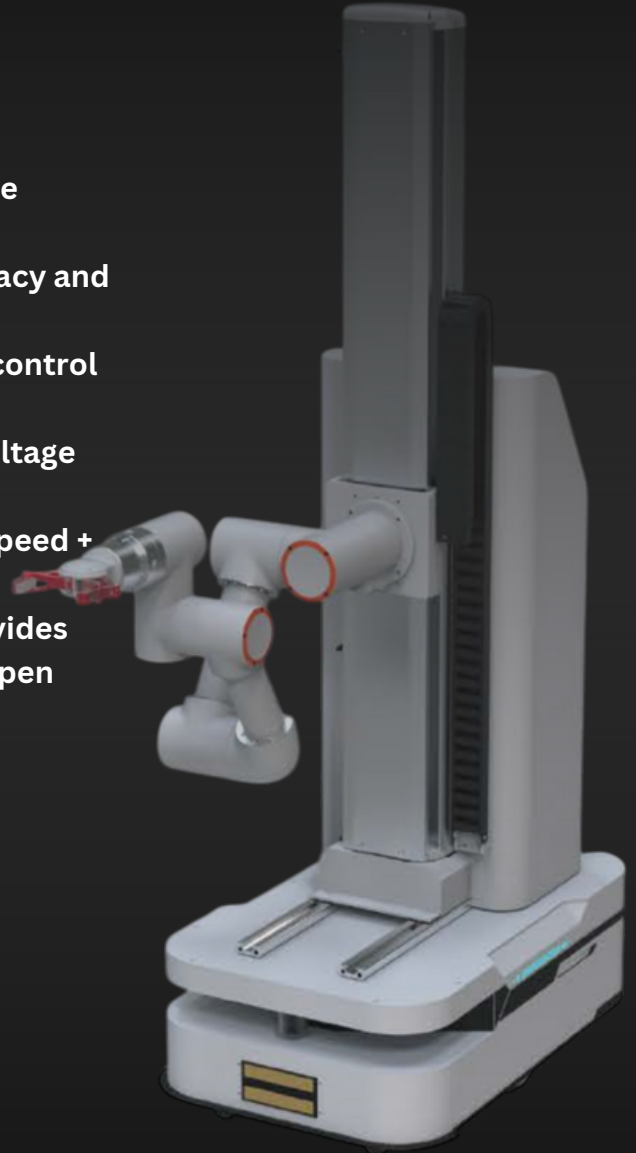
CMR-D1 Pro

Full Specifications Table

Key Features

- **Laser Mapping and Obstacle Avoidance:** Large-scale indoor mapping and dynamic obstacle avoidance.
- **High-precision Navigation:** $\pm 5\text{cm}$ positioning accuracy and path planning
- **Robotic Arm Gripping:** Equipped with robotic arm control gripping and open ROS interface functionality
- **Multi-Source Data Closed-Loop:** IMU/odometer/voltage real-time feedback
- **Vertical Electric Lift Expansion:** (250 mm/s lifting speed + 1000 mm vertical travel range)
- **Standard Protocols and Data Communication:** Provides navigation and robotic arm interface control and open protocols

Product	Dimensions: 730*460*260 (L*W*H) (mm)
Technical	Chassis Weight: 46kg
Parameters:	Materials: Q235
	Vertical Load: 120kg
	Encoder line count: 4096 Lines
	Protection Rating: IP22
	Operating Temperature: -10-60°C
	Charging Time: <3h
	Motor Power: 150W*2
	Motor Type: Hub motor (brushless DC)
	Maximum Speed: 1.5m/s
	Theoretical Battery Life: >4h
	Battery Capacity: 24V 40AH (lithium battery, expandable)
	External Power Supply: 24V/19V/12V
	Emergency Stop Method: Remote emergency stop/hardware emergency stop/software emergency stop
	System Support: ROS/WIN/UBUNTU
	Navigation Accuracy: $\pm 30\text{mm}$
	Navigation Method: Laser navigation (2D SLAM)
	Navigation Protocol: MQTT
	Remote Control Mode: 2.4G RC Model Remote Control



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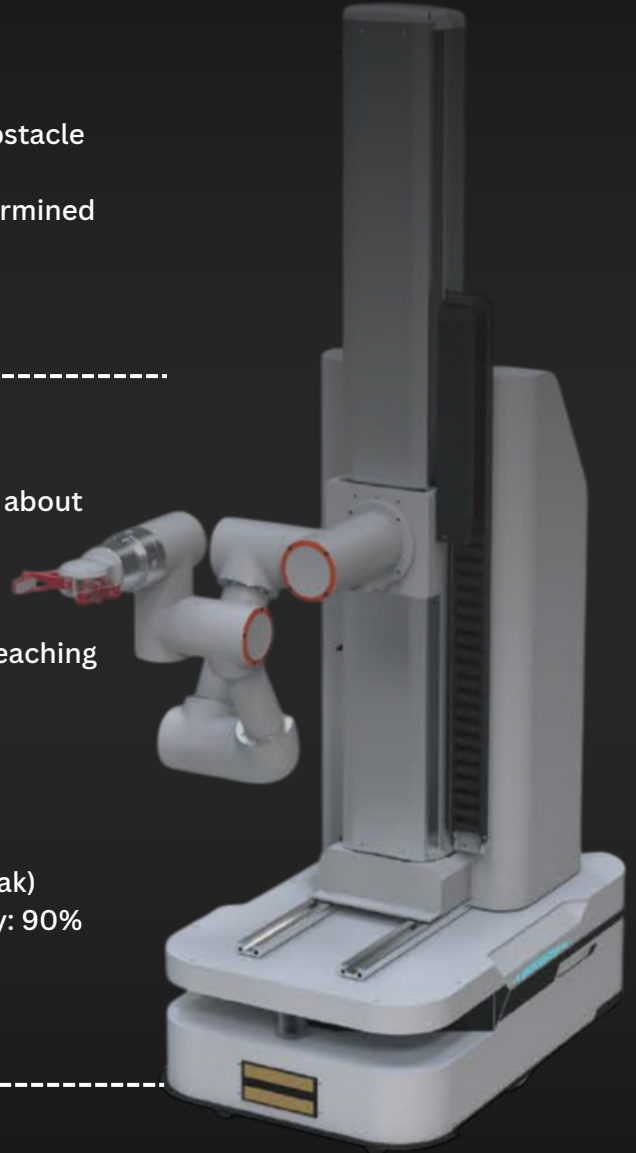
CMR-D1 Pro

Full Specifications Table

Product Technical Parameters:	Obstacle Avoidance Method: Supports obstacle detection and obstacle avoidance Navigation Mode: Point-to-point, predetermined route, trajectory, etc. Turning Radius: Rotate in place (0°) Auxiliary Positioning Accuracy: $\pm 10\text{mm}$
-------------------------------	--

Robotic Arm Parameters:	Working radius: 622mm Payload: 3kg Material/Body weight: Aluminum + steel / about 10KG Repeatable Accuracy: $\pm 0.05\text{mm}$ Terminal Velocity: $\leq 2\text{m/s}$ Human-computer interaction: 10.1-inch teaching device or mobile terminal app IO port: 2DI, 2DO, 1AI, 1AO Noise: $< 65\text{db}$ Power supply: 24V/1.5A Protection rating: IP54 Typical power: 200W (average), 230W (peak) Working environment: $-20\text{--}50^{\circ}\text{C}$, humidity: 90% RH (no condensation)
-------------------------	---

Motorized Jaw Parameters:	Recommended Load: 3kg Weight: 0.46kg Rated clamping force: 10-35N Power Supply: 24V (DC) Opening and closing distance: 0-90mm Communication: RS485 Controller: Built-in Self-locking: Not supported IO Port: 2 DI / 2 DO External interface: 1 UART
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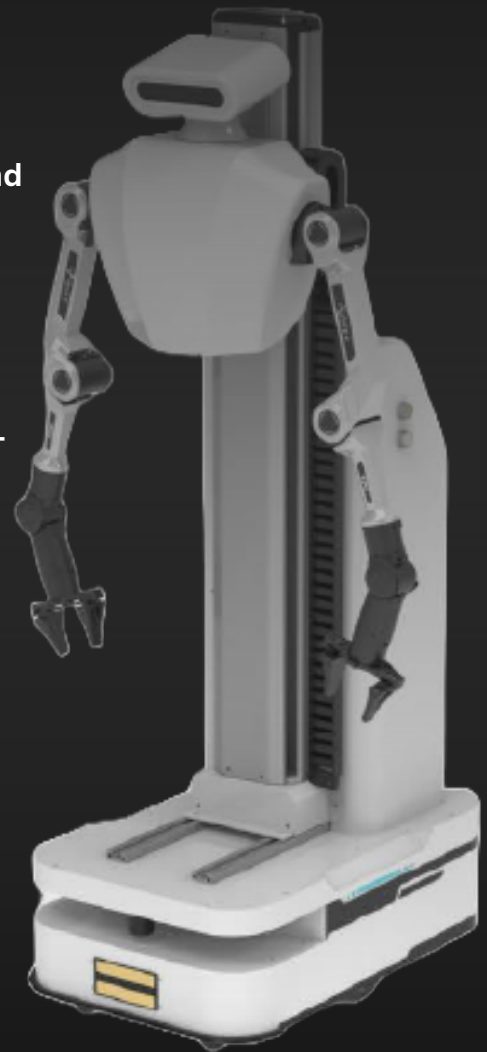
CMR-D2 Pro

Full Specifications Table

Key Features

- **Laser Mapping and Obstacle Avoidance:** Large-scale indoor mapping and dynamic obstacle avoidance.
- **High-precision Navigation:** $\pm 5\text{cm}$ positioning accuracy and path planning
- **Precision control of dual bionic robotic arms:** $\pm 10\text{mm}$ repeatability + 1.5kg load handling
- **Multi-Source Data Closed-Loop:** IMU/odometer/voltage real-time feedback
- **Vertical Electric Lift Expansion:** (250 mm/s lifting speed + 1000 mm vertical travel range)
- **Standard Protocols and Data Communication:** Provides navigation and robotic arm interface control and open protocols

Product	Dimensions: 730*460*260 (L*W*H) (mm)
Technical	Chassis Weight: 46kg
Parameters:	Materials: Q235
	Vertical Load: 120kg
	Encoder line count: 4096 Lines
	Protection Rating: IP22
	Operating Temperature: -10-60°C
	Charging Time: <3h
	Motor Power: 150W*2
	Motor Type: Hub motor (brushless DC)
	Maximum Speed: 1.5m/s
	Theoretical Battery Life: >4h
	Battery Capacity: 24V 40AH (lithium battery, expandable)
	External Power Supply: 24V/19V/12V
	Emergency Stop Method: Remote emergency stop/hardware emergency stop/software emergency stop
	System Support: ROS/WIN/UBUNTU
	Navigation Method: Laser navigation (2D SLAM)
	Navigation Accuracy: $\pm 30\text{mm}$
	Navigation Protocol: MQTT
	Remote Control Mode: 2.4G RC Model Remote Control



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CMR-D2 Pro

Full Specifications Table

Product Technical Parameters:

Obstacle Avoidance Method: Supports obstacle detection and obstacle avoidance

Navigation Mode: Point-to-point, predetermined route, trajectory, etc.

Turning Radius: Rotate in place (0°)

Auxiliary Positioning Accuracy: $\pm 10\text{mm}$

Robotic Arm Parameters:

Working radius: 626mm

Payload: 1.5kg

Material/Body weight: Aluminium alloy + plastic shell/4.2KG

Repeatable Accuracy: $\pm 0.1\text{mm}$

Terminal Velocity: $\leq 2\text{m/s}$

Power consumption: Maximum power consumption $\leq 120\text{W}$, Total power consumption $\leq 40\text{W}$

Control method: Drag teaching/offline trajectory/API/host computer

Noise: $< 60\text{db}$

Power supply: DC24V (24V~26V)

Protection rating: IP54

Communication: CAN

Working environment: $-20\sim 50^\circ\text{C}$, humidity: 25%-85% RH (non-condensing)

Motorized Jaw Parameters:

Weight: 0.5kg

Accuracy: $\pm 0.5\text{mm}$

Opening and closing distance: 0-70mm

Rated clamping force: 40N

Maximum clamping force: 50N

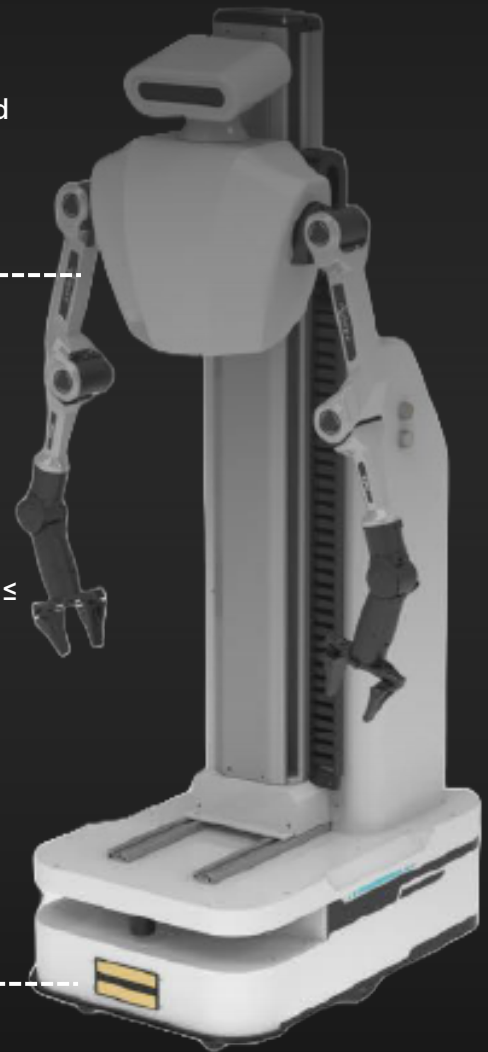
Supply voltage: DC24V

Power consumption: Maximum power consumption $\leq 50\text{W}$, Total power consumption $\leq 30\text{W}$

Self-locking: Not Supported

Contact surface material: Rubber

External interface: Power supply interface*1, CAN interface*1



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CMR-H1

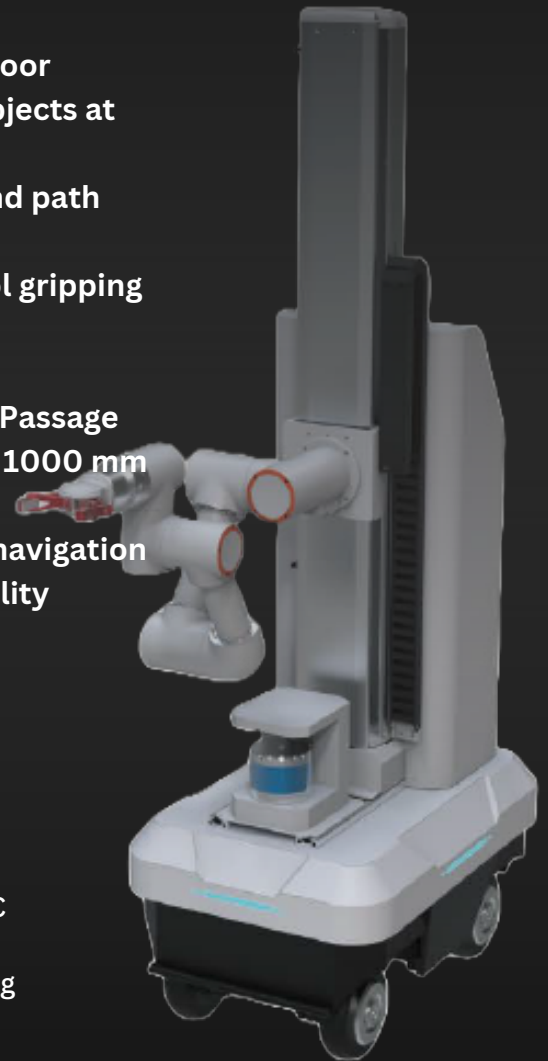
Full Specifications Table

Key Features

- **Multi-line laser navigation and obstacle avoidance:** Outdoor mapping navigation + dynamic obstacle avoidance for objects at different heights
- **High-precision Navigation:** $\pm 5\text{cm}$ positioning accuracy and path planning
- **Robotic Arm Gripping:** Equipped with robotic arm control gripping and open ROS interface functionality
- **Omnidirectional Chassis for High-Flexibility Movement:** Lateral/Diagonal/Zero-Radius Turning + 1m Narrow Path Passage
- **Vertical Electric Lift Expansion:** 250 mm/s lifting speed + 1000 mm vertical travel range
- **Standard Protocols and Data Communication:** Provides navigation and robotic arm interface control and protocol accessibility

Product Technical Parameters:

- Dimensions: 710*490*385 (L*W*H) (mm)
- Chassis Weight: 70 kg
- Materials: Q235
- Vertical Load Capacity: 120 kg
- Encoder Line Count: 4096 lines
- Protection Rating: IP54
- Operating Temperature Range: -10°C to 60°C
- Charging Time: 3 hours
- Motor Power: Drive motor 150W $\times 4$ + Steering motor 60W $\times 4$
- Motor Type: 100 mm
- Maximum Speed: 2.0 m/s
- Theoretical Battery Life: 3 hours
- Battery Capacity: 48V 25AH (lithium battery, expandable)
- External Power Supply: 48V / 24V / 19V / 12V
- Emergency Stop Method: Remote emergency stop, Hardware emergency stop, Software emergency stop
- System Support: ROS / Windows / Ubuntu
- Climbing Ability: 20% slope
- Obstacle Crossing (Vertical Steps): 5 cm
- Movement Mode: Omnidirectional movement
- Slope Hold: Servo hill hold



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CMR-H1

Full Specifications Table

Product Technical Parameters:	- Navigation Method: Laser navigation (3D SLAM) - Navigation Accuracy: ± 80 mm - Navigation Protocol: MQTT - Remote Control Mode: 2.4G RC Model Remote Control
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Robotic Arm Parameters:	- Working Radius: 622 mm - Payload: 3 kg - Material / Body Weight: Aluminum + steel / about 10 kg - Repeatable Accuracy: ± 0.05 mm - Terminal Velocity: ≤ 2 m/s - Human-Computer Interaction: 10.1-inch teaching device/ Mobile terminal app - IO Ports: 2 DI, 2 DO, 1 AI, 1 AO - Noise Level: < 65 dB - Power Supply: 24V / 1.5A - Protection Rating: IP54 - Typical Power: 200W (average)/ 230W (peak) - Working Environment: -20°C to 60°C, Humidity: 90% RH (no condensation)
-------------------------	---

Motorized Jaw Parameters:	- Recommended Load: 3 kg - Weight: 0.46 kg - Rated Clamping Force: 10–35 N - Power Supply: 24V DC - Opening and Closing Distance: 0–90 mm - Communication: RS485 - Controller: Built-in - Self-Locking: Not supported - IO Ports: 2 DI / 2 DO - External Interface: 1 UART
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CMR-H2

Full Specifications Table

Key Features

- Multi-line laser navigation and obstacle avoidance: Outdoor mapping navigation + dynamic obstacle avoidance for objects at different heights
- High-precision Navigation: $\pm 5\text{cm}$ positioning accuracy and path planning
- Precision control of dual bionic robotic arms: $\pm 10\text{mm}$ repeatability + 1.5kg load handling
- Omnidirectional Chassis for High-Flexibility Movement: Lateral/Diagonal/Zero-Radius Turning + 1m Narrow Path Passage
- Vertical Electric Lift Expansion: 250 mm/s lifting speed + 1000 mm vertical travel range
- Standard Protocols and Data Communication: Provides navigation and robotic arm interface control and protocol accessibility

Product	Dimensions: 710*490*385 (L*W*H) (mm)
Technical	Chassis Weight: 70kg
Parameters:	Materials: Q235
	Vertical Load: 120kg
	Encoder line count: 4096 Lines
	Protection Rating: IP54
	Operating Temperature: -10-60°C
	Charging Time: 3h
	Motor Power: Drive motor 150W*4 + steering motor 60W*4
	Height Above ground: 100mm
	Maximum Speed: 2.0m/s
	Theoretical Battery Life: 3h
	Battery Capacity: 48V 25AH (lithium battery, expandable)
	External Power Supply: 48V/24V/19V/12V
	Emergency Stop Method: Remote emergency stop/hardware emergency stop/software emergency stop
	System Support: ROS/WIN/UBUNTU
	Climbing: 20%
	Obstacle crossing (vertical steps): 5cm
	Movement mode: Omnidirectional movement mode
	Slope hold: Servo hill hold



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CMR-H2

Full Specifications Table

Product Technical Parameters:

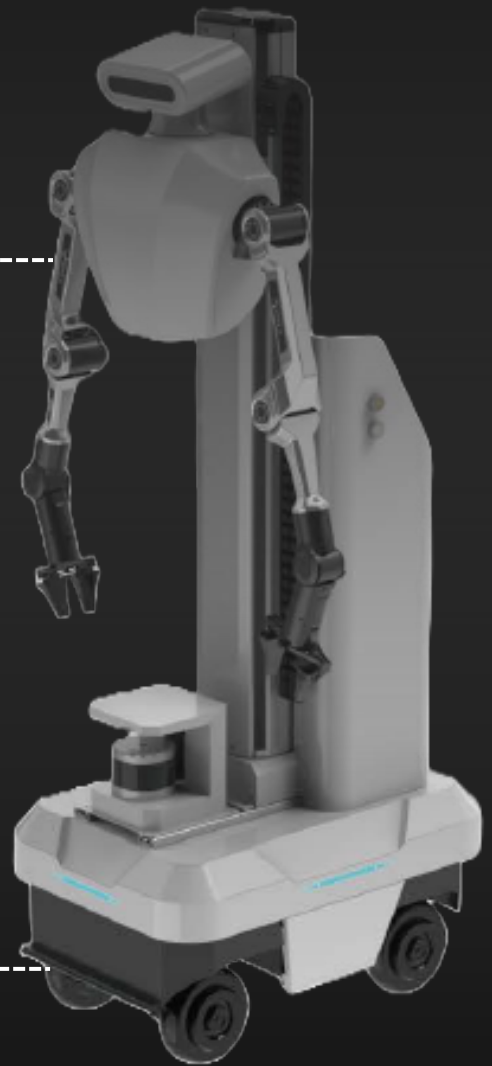
Navigation Method: Laser navigation (3D SLAM)
 Navigation Accuracy: $\pm 80\text{mm}$
 Navigation Protocol: MQTT
 Remote Control Mode: 2.4G RC Model Remote Control

Robotic Arm Parameters:

Working radius: 626mm
 Payload: 1.5kg
 Material/Body weight: Aluminium alloy + plastic shell/4.2KG
 Repeatable Accuracy: $\pm 0.1\text{mm}$
 Terminal Velocity: $\leq 2\text{m/s}$
 Power consumption: Maximum power consumption $\leq 120\text{W}$, Total power consumption $\leq 40\text{W}$
 Control method: Drag teaching/offline trajectory/API/host computer
 Noise: $< 60\text{db}$
 Power supply: DC24V (24V~26V)
 Protection rating: IP54
 Communication: CAN
 Working environment: $-20\sim 50^{\circ}\text{C}$, humidity: 25%-85% RH (non-condensing)

Motorized Jaw Parameters:

Weight: 0.5kg
 Accuracy: $\pm 0.5\text{mm}$
 Opening and closing distance: 0-70mm
 Rated clamping force: 40N
 Maximum clamping force: 50N
 Supply voltage: DC24V
 Power consumption: Maximum power consumption $\leq 50\text{W}$, Total power consumption $\leq 30\text{W}$
 Controller: Not Supported
 Contact surface material: Rubber
 External interface: Power supply interface*1, CAN interface*1



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