FW-01

Full Scene Application Omnidirectional UGV Multiple Moving Mode | 0m Turning Radius | 80kg Payload | Security <u>P</u> Indoor and Outdoor Modular Mobile Robot Platfo



our-wheel independant control theory, which adopts driveand steering integrated in one module.

Full Scene Application Handling

It has a variety of flexible driving modes and combing powerful maneuverability and flexibility to accommodate a wide variety of robotics applications in patrol, detection and manipulator collaborative mission.





Meeting the requirements of using in -20C* to 50C* condition,



Easy to Start Your Robotics Application available for starting your robotics application.



Payload mounting plates and accessible power and

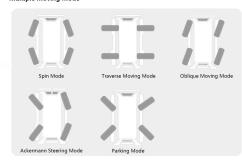
control. Stability is 30% better than other similar robot chassis

Precise Control Steering Accuracy < ±1°



Steering motor with 4096 pulse encorder (< 1°) Wheel hub motor with 1024 pulse encorder (< 1°)

Multiple Moving Mode



Security Strategy

- •Emergency-stop Protection

EC-BOX Disattachable Design



Easy for handling device maintenance and upgrade

Technical Specifacation

Dimensions	680*550*440mm
Weight	68kg
Drive Form	Swerve Steering Motor Drive
Material	Aluminium Alloy
Ground Clearance	120mm
Wheel Track	400mm
Wheel Base	420mm
Wheel Diameter	9.5 inch/240mm
Motor	350Wx4, Servo Motor
Battery	36V/30AH
Charging Time	4-51
Charging Method	36V/10A Manual Charging,
	Auto Chargino

24V/15A-12V/15A Motor Braking Motor Parking Braking Method Parking Method Speed 5.4km/h Running Mileage Wading Depth 40km 100mm Max Climbing Capacity 15° with full load Span Width 120mm with full load Obstacle Surmounting Height 25mm with full load IP Rating Communication Interface IP33 CAN 2.08







Technical Support



::: ROS 1 & 2 Driver Modular Mount Communication Port

- Supports motion control development Supports auto charging detection
- Steering limited protection
- Parking protection
- Supports remote control priority

- Battery temperature, voltage and current
- Supports charging status feedback
- feedback

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Communication	Modular	RC mode/Auto Mode	Kinematics	Optimized
Protocol Port	Power Ports	switch	Imputation algorithm	Acceleration