

Roadside Intelligent Management Robot SV-RBT-R1-EX

Making Cities Better

Product Overview

The roadside intelligent management robot is an intelligent inspection robot hardware equipped with intelligent navigation, automatic patrol, auto-charging, AI recognition and other core capabilities. Integrated with 3D LiDAR, ultrasonic sensors, 4-lens 360° HD perception cameras, red-green warning lights, wireless charging modules and multiple functional components, it is applicable to scenarios including roadside parking inspection, illegal parking supervision and park patrols, capable of replacing manual labor to fulfill repetitive inspection tasks.

Product Appearance



Main structure	Sheet metal body, electric control chassis, retractable push rod
Sensors	Ultra-wide-angle 3D LiDAR, ultrasonic radar, attitude sensor, top 360° high-precision perception camera, front wide-angle auxiliary camera

BLUE ROBOT AI

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Wireless charging	600 W wireless charging module
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Functional Features

- **Autonomous Navigation:** Centimeter-level positioning and navigation realized via LiDAR SLAM technology.
- **Intelligent Detection:** Equipped with HD AI cameras to complete AI roadside inspection tasks.
- **Real-time Alarm:** AI algorithms analyze data automatically, and abnormal events are pushed to the management platform instantly.
- **Multi-environment Adaptation:** IP55 protection rating, suitable for indoor and outdoor environments.
- **Automatic Charging:** Powered by lithium battery, supports 24-hour continuous operation and automatic recharging.

Technical Parameters

Single Battery Range	12 km
Total Weight	70 kg
Equipment Dimension	73 × 45 × (110–180) cm
Maximum Climbing Slope	20°
Moving Speed	0~5 m/s
Max Obstacle Crossing Width	10 cm
Max Obstacle Crossing Height	4 cm
Voice Broadcast	Customizable voice prompts
Comprehensive Endurance Mileage	20 km
Battery Capacity	24 V / 35 Ah

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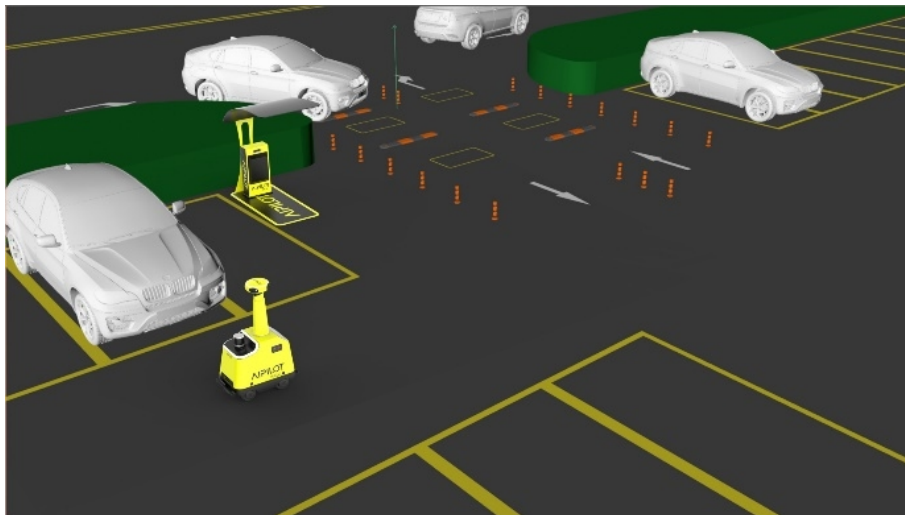
Ingress Protection Rating	IP55
Autonomous Navigation	3D LiDAR + SLAM navigation technology
Autonomous Obstacle Avoidance	Ultrasonic sensors + binocular depth camera
Autonomous Charging	600 W wireless automatic charging
Top Perception Camera	4-lens, 8MP per camera
Front Auxiliary Camera	8MP

Application Scenarios

Smart Parking Management

Intelligent Traffic Monitoring

Security Patrol



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