

Patrol Robot

Making spaces more safe, secure, and productive.



Product Description

Robot is a security solution designed for public spaces. Patrol Robot comes with 360 degree 24/7 patrol capability, real-time video intercom, intelligent image recognition functions and other necessary functions. For a variety of closed public spaces from transportation stations to school and industrial campuses.



Product Highlights

 24-hour Duty Patrol

 360-degree Panoramic Video Monitoring

 Fire monitoring

 IoT control terminal

 Mobile emergency alarm

 5G network application

Applicable Scenarios



Industrial Parks



Transportation Hubs



Community Centers



Hospitals



Offices



Hotels



Malls



Campuses

Product Functions

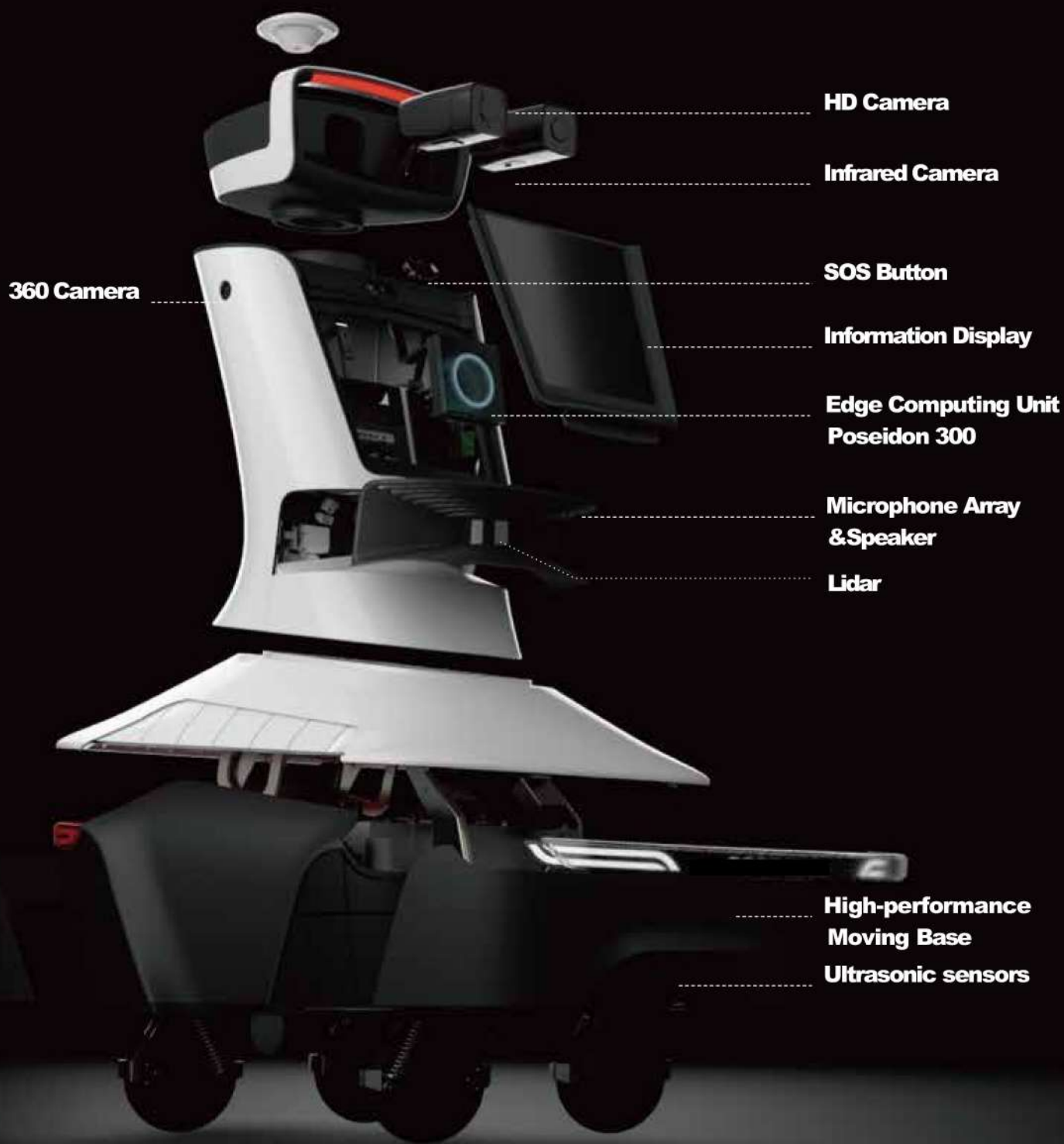
1. Navigation

- **Complex outdoor environment navigation with 3D lidar and GNSS**
- **User configurable patrol routes and patrol schedules**
- **Autonomous obstacle avoidance**
- **Automatic self recharging**
- **Adverse weather navigation with millimeter wave radar**
- **Four wheel drive and pivot steering**

2. Video Monitoring, Intelligent Analysis

- **High definition camera for low light environments**
- **Thermal imaging camera**
- **Infrared HD camera**
- **Continuous real time video monitoring**
- **Anomaly detection**
- **Facial detection and recognition**





HD Camera

Infrared Camera

360 Camera

SOS Button

Information Display

**Edge Computing Unit
Poseidon 300**

**Microphone Array
& Speaker**

Lidar

**High-performance
Moving Base**

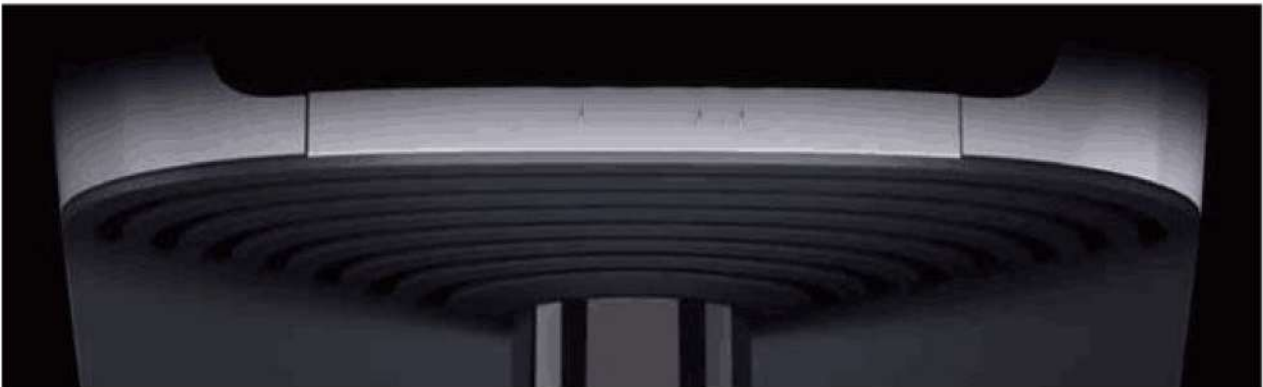
Ultrasonic sensors

Features Description

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Patrolling	User configurable patrol routes and patrol schedule; Autonomous obstacle avoidance; Automatic self recharging;
Temperature Measuring	Contactless body temperature measuring; Measure multiple people simultaneously;
Real-time Monitoring	Equipped with 4 HD & infrared cameras; Real-time access to robot video and audio; Time based queries of historical data;
Smart Recognition	Facial and voice detection and recognition
Remote Operation	Directly override and control the robot remotely; Real-time alerting; Integrated call-for-help button for immediate assistance;
Broadcasting	Able to broadcast custom messages or videos while patrolling.
HMI	Automatic Speech Recognition; Natural Language Processing; Text-To-Speech; Voice interaction support in multiple languages ;



Product Parameters		
Main Control	Dimensions(L xW xH)	1000 × 800 × 1500mm
	Total Weight	200kg
	Drive Mode	Four-Wheel Drive
	Turning Radius	Pivot steering
	Battery Pack	48V/30Ah
	Charger Parameters	Input: 100-230V/50~60Hz Output: 48V/10A
	Recharge Time	Ca. 3.5 hours
	Recharge Mode	Auto-/instructed return-and-recharge Supports Both contactless and wired recharge modes
	Battery Life	8 Hours(standby), 6 Hours(under 0.8m/s speed)
	Comms	4G or 5G
	Protection Level	IP54
	Ambient Temperature	-10~ 50°C
	Storage Temperature	-20~50°C
Screen	Size	10.6-inch
	Touch	Not Supported
Audio / Video input	MIC Array	7.Njd Bssbz
Miscellaneous	Interfaces	USB (Type C) x 1
	Collision Detection	Supported
	Drop Detection	Supported
	Outline Marker Lamps	N/A



Robot Deployment and Management

The Patrol Robot can be deployed and managed in a few easy steps using our Robot Management System.

-  Set up the robot charging station
-  Install the Robot Management System and connect the robot via a WLAN
-  Build up the map of the patrolable area and configure the desired patrol routes and schedules
-  Run tests to ensure all systems are functioning correctly
-  Deploy and manage the robot via the Robot Management System



Robot Management System

All system Robots are managed through the robot management system. This system provides real-time data of your entire robot fleet including locations, operational status, video feeds, and much more. Historical data can be accessed for custom analytics and dashboards. The robot management system also provides advanced tooling to manage custom tasks, manage alarms, and set authorization rules.



Data analysis

sensor data, location data,
time series data

Alarm management

anomaly detection alarm, threat detection alarm,
equipment failure alarm, low battery alarm

Robot management

Authorization, status,
logs, data collection

Tasks management

Create, manage,
and allocate tasks

Robot Management System

Patrol Robot is currently deployed in Beijing Park and is performing 24-hour patrolling and monitoring services.

