INTELLIGENT SECURITY PATROL ROBOT

Firm and Powerful enough to guarantee your security
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OVERVIEW

Based on AI+ concept developed intelligent robot platform, and integrated with robot vision system, audio-video data acquisition, fire fighting, security and self-driving technologies, equipped with 360°infrared camera, ultrasonic wave radar, binocular camera, net gun, tear gas, water cannon and dry powder extinguisher, designed based on wheeled car, Chuangze intelligent security patrol robot could all-weather automatic patrol, and 360-degree transmit sound and image synchronously. It will automatically avoid pedestrians and obstacles when patrolling. The patrol robot could move fast to do on-site support when exception occurred. By providing intelligent security service, it becomes the guardian of public places such as community and school!
**FUNCTION**

- **Dry powder fire extinguisher / pepper spray**
- **Panoramic camera with lifter**
- **Two-way audio & video intercom**
- **One button SOS alarm**
- **Autonomous inspection**
- **Emergency stop**
- **Peripheral collision detection rod**
- **Fire Hose Coupling**
## PARAMETER

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>1830mm<em>968mm</em>1600mm–2300mm (all cameras raised)</td>
</tr>
<tr>
<td>Weight</td>
<td>max260kg</td>
</tr>
<tr>
<td>Cruise time</td>
<td>≥8 hours</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>48V 75a</td>
</tr>
<tr>
<td>Waterproof grade</td>
<td>IP45</td>
</tr>
<tr>
<td>Networks</td>
<td>TD-LTE/FDD-LTE</td>
</tr>
<tr>
<td>Motor speed</td>
<td>walking speed: 1m/s (cruising speed), 1-3m/s (telecontrolled speed)</td>
</tr>
<tr>
<td>Minimum turning radius</td>
<td>2.5m</td>
</tr>
</tbody>
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![Diagram of Intelligent Robot](image)
Intelligent Robot

- Net gun
- Powder injection pipe
- Pepper spray
- Water nozzle
- Horn
- Binocular camera
- Ultrasonic radar
- Forward laser
- Charging interface
- Headlights
- Outdoor display
- Ultrasonic radar
- Tail lamp
- Back laser obstacle avoidance radar
- Fire hose coupling

Dimensions:
- 968mm
- 1600mm
ADVANTAGE

- Autonomous task execution
- Mobile APP monitoring
- Omnidirectional video and audio monitoring
- Background management cloud platform
- Intelligent analysis
- One button alarm
- Environmental awareness safety protection
Intelligent Robot

- **Background management cloud platform**: It consists of modules of video monitoring, map, sensor, controller, abnormal alarm and data analysis to realize human-computer interaction and big data analysis function.

- **Autonomous task execution**: The robot is equipped with a 360-degree panoramic camera and standard clear camera which can provide a stable monitoring picture and robot controlling picture under complex environment. It is equipped with a pickup device to collect on-site sound and provide real-time situation for the background.

- **Omnidirectional video and audio monitoring**: The robot can patrol autonomously along the preset path, and stay at designated places to watch and detect. The data can be uploaded to the background management cloud platform for archiving and analysis. In case of any abnormality, it will sound an alarm automatically without human intervention.

- **Intelligent analysis**: Through big data and artificial intelligence, realizing face recognition, license plate recognition, abnormal sound analysis, behavior analysis functions and audio and video analysis functions of personnel, equipment and environment.

- **Environmental awareness safety protection**: It has strong adaptability to the environment. With SLEAM long-range radar ranging, it can automatically stop when encountering obstacles for avoiding injuries to personnel and equipment. It is equipped with various sensors to monitor air quality and harmful gases in real time. The sensors can be heavily customized.

- **One button alarm**: it can realize sound-light alarm, one-button SOS alarm, two-way voice intercom and front-and-back interactive remote technical support functions.

- **Mobile APP monitoring**: Users can check the real situation during robot patrol through the mobile APP in real time.
In most blocks, due to large area, security services cannot be efficiently provided. However, our security patrol robot could do 24-hour high-frequency patrols, thus effectively deterring crimes.
It could be used for park and zoo such large public places daily patrol, which is efficiently monitoring all areas including security camera blind spot, and could detect and deal with the unusual situation in time.
PROFILE

Chuangze Intelligent Robot Co., Ltd., a national high-tech enterprise, was founded in 2010, which has branches in Beijing, Shanghai and Shenzhen, and has established Chuangze AI Institute (USA) in Silicon Valley in the United States. Next year, we plan to establish Chuanze AI Institute in UK, German, Japan and Israel, to recruit the world’s top talent and absorb advanced global scientific research concepts and achievements.

➢ We have a first-rate intelligent robot R&D team.
➢ Established “Service Robot Associated Lab” and “Joint Postdoctoral Training Practice Base” with Wuhan University of Science and Technology.
➢ Established “Shandong Academician Workstation” with academician of the China’s Academy of Engineering TAN Jianrong.
➢ Established “Shandong University-Chuangze Research Center” with Shandong University.
➢ The Graduate Training Base of Zhejiang University of Technology.

Over the years, we committed to the innovative research and development in the field of artificial intelligence and informatization, developed a complete research, development, production, sales and service network. Our customers throughout more than 20 domestic provinces and cities. And accumulated rich industry experience and can meet the diversified needs of customers.
HONORS

- Forbes China New Third Board enterprise TOP100 in 2018
- CMMI Maturity level -3
- Information Security Management System Certificate ISO/IEC27001
- Certificate of Conformity Quality Management System
- Chinese Patent Award of Excellence
- National High-tech Enterprise
- Leading Enterprise in China’s Software Industry
- AAA Credit Enterprise of China’s Software Industry
- Top Ten Innovation Products of Chinese Service Robot
- The most Fast Growing Enterprise of China's software Industry
- Good Faith Demonstration Enterprise
- Top 10 Public Satisfaction Brand of China Software & Information Service
- Shandong Academician Workstation
- Standing Executive Member of CAIA
- Shandong Software Engineering Technology Center
- The first batch of "Gazelle Demonstration Enterprises" in Shandong province
INTELLIGENT SECURITY PATROL ROBOT

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