Security patrol robot

APV-S

GIVE YOUR FUTURE ONE WAY MORE

Security patrol robot APV-SD

Suitable for urban outdoor public spaces, suchas the outer square of stadiums, communities.parks, scenic spots, schools, hospitals, prisons camps, etc.

Features Description

Parameters

Dimensions(L x W x H)	Total Weight	Protection Level	Working temperatur
875 x 675 x 1270mm	105kg	IP55	-20°~60°

Match ground conditions	Control mode
Outdoor pavement	Autonomous driving, remote control, RMS, mobile APP

4-Wheel Chassis

Climbing gradien	Obstacle clearance capability	Run time on a full charg	Shock absorption mode
15°	60mm	8h	Four-wheel independent suspension

Drive Mode	quick charge	Turning Radius	Drive motor
Four-Wheel Drive	2h	Turning radius Pivot steering, zero turning radius	250W*4, 1024-line photoelectric encoder

Auto-Navigation

Autonomous navigation speed	Maximum remote control speed	Navigation and Position Method
1.6m/s	2m/s	SLAM algorithm based on 3D lidar

Robot Management System (RMS)

Functions

The Robot Management System (RMS) hascore functions such as robot status managementnavigation task planning, remote behavior control.real-time monitoring, historical video backtracking.real-time alarm and disposal, intelligent dataanalysis,patrol report management, and systemparameter setting, and also be capable of providingrobot and data access interfaces, seamlessconnection with smart security systems, policesystems, and smart city systems, and cooperatingwith security personnel or police officers to realizeremote operation management via mobile phones,computers and other remote intelligent terminals.

- Robot status management
- Issue of guard tasks
- Real-time remote monitoring
- AI image data retrieval
- Remote control and emergency command
- Real-time alarm and disposal
- Remote media delivery
- Remote audio and video intercom
- Data report generation
- Remote software upgrade
- API development

Robot Management System (RMS)

Hardware requirement

CPU	Network card	Hard disk	Memory	Video card
Intel Xeon E52.1GHz or above	Gigabit Ethernet card	Over 1T	Over 16G	NVIDIA GeForce GTX 1060以上

Software requirement

Operating system	java program running environment	Web container server
CentOS Linux release 7.3.1611	version1.8.0_121	Apache-tomcat-8.5.14

File server	Database software
vsftpd-3.0.2	mysql-5.7.18

Patrol and guard

- Map building
- Autonomous obstacle avoidance
- Autonomous charging
- Autonomous positioning
- Pivot steering
- Climbing gradient of 15°
- Maximum obstacle clearance of 6cm (vertical)
- 24-hour uninterrupted patrol

24-hour uninterrupted patrol

Thermal imaging camera **1080P Night vision**

- 360-degree monitoring without blind angle
- 4-ways HD night vision cameras (Front, back and the two sides)

Automatic video storage

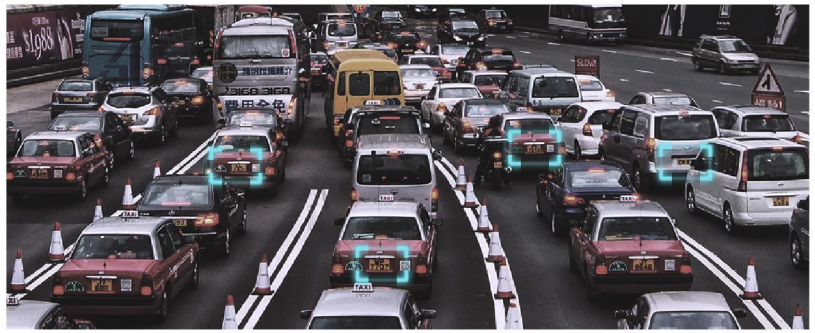
- Historical video backtrackin

Intelligent detection

- Face recognition
- Vehicle license plate recognition
- Pedestrian detection
- Specific abnormal data collection

The robot has the function of face recognition, which can capture the faces in the video picture and realize multi-channel concurrent comparison. It can trigger the response mechanism according to the comparison results to realize the face defense control. The system provides at least two types of face database construction, including blacklist and whitelist, and supports the entry of face data in the mobile terminal APP. The face captured by the robot terminal will be associated with the map location, and the location of face capture can be queried at any time.

With the license plate recognition function, it can accurately identify the license plate with the main road video image meeting the requirements and output the recognition results to the patrol robot system client. The system side supports the establishment of the owner's license plate database.



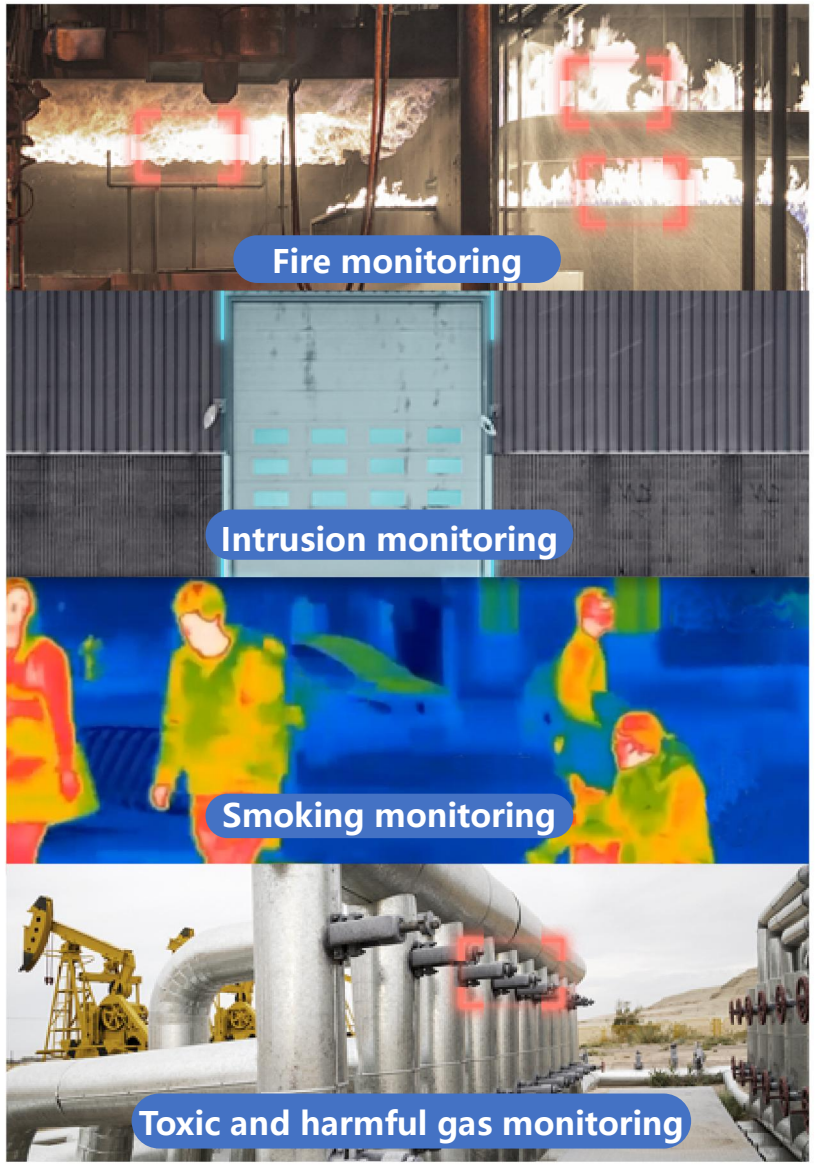
Vehicle license plate recognition

Face recognition

Pedestrian detection

Monitoring and early warning

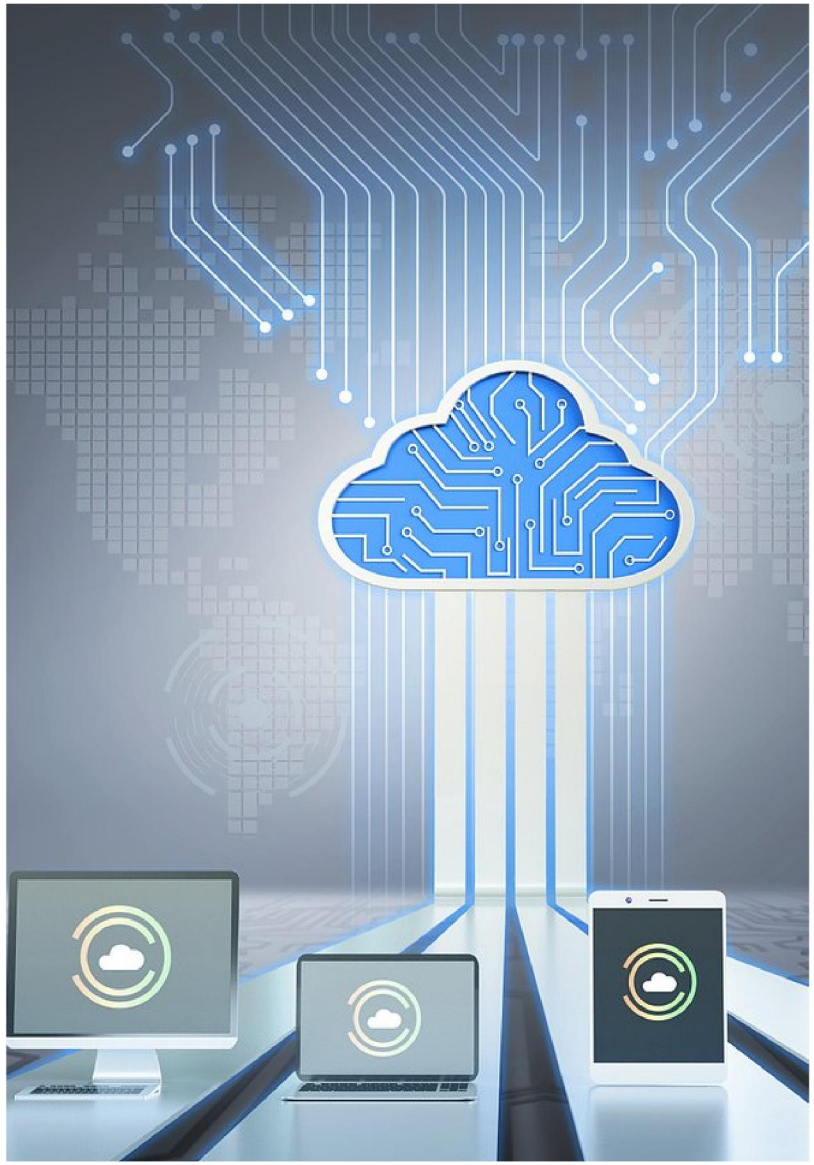
- Equipped with thermal imaging camera
- Equipped with various sensors
- Heat source monitoring
- Temperature and humidity monitoring
- Smoke monitoring
- Automatic early warning to reduce potential safety hazard



Remote disposal, warning and deterrence

Support remote control of multiple devices

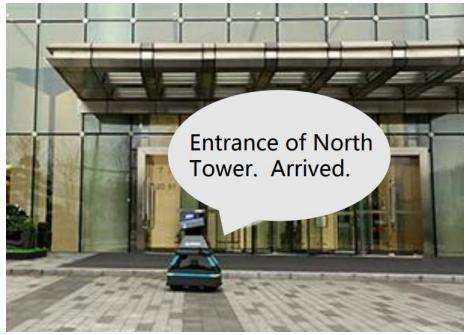
- Audible and visual alarm
- Remote call
- Prompts & warnings
- One-click call for help
- Field evidence collection
- Audio and video intercom

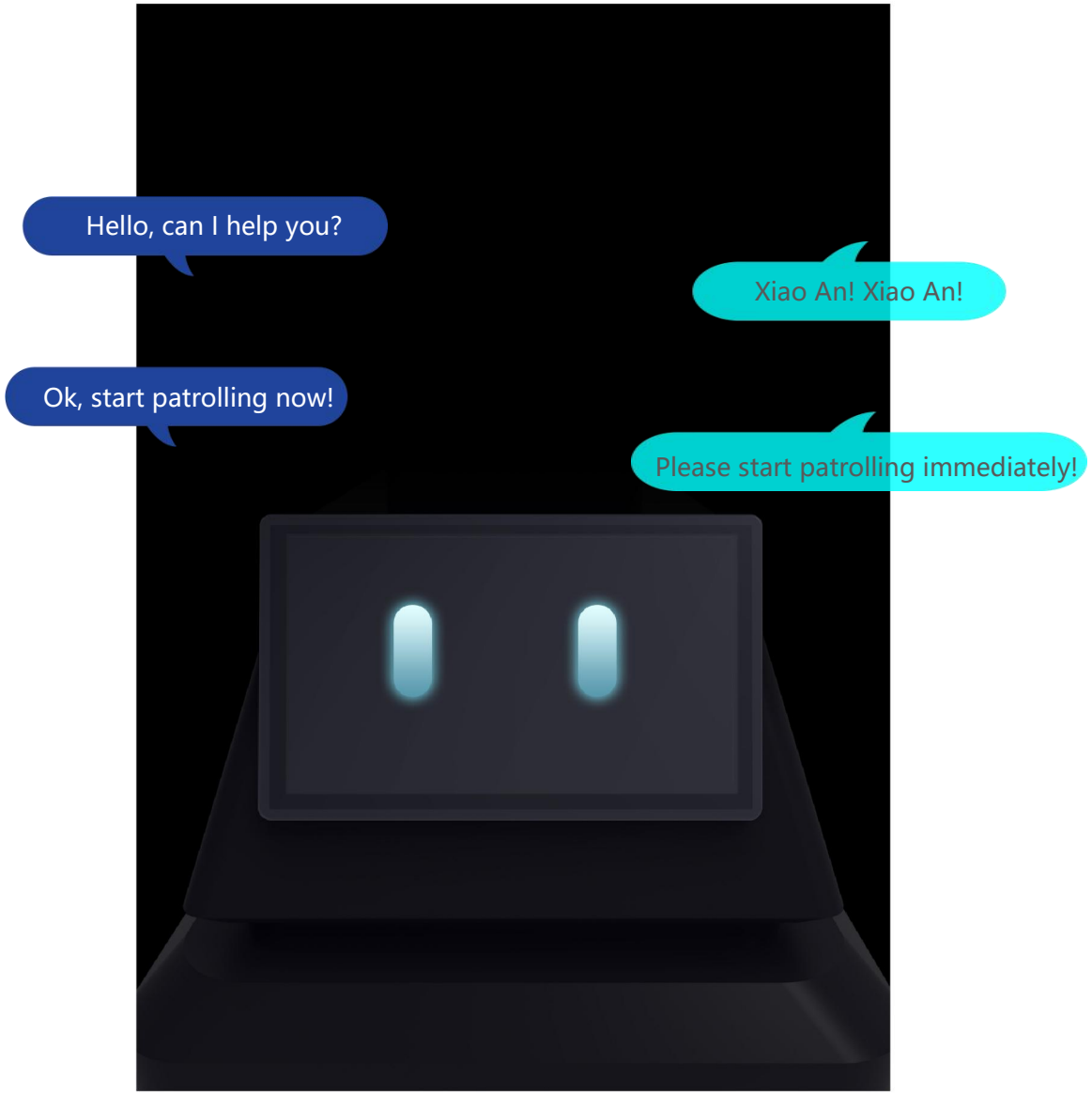


AI voice

Patrol broadcasting and visit guide

- Announcement broadcast
- Voice prompts
- Guide
- Voice interaction
- Advertising

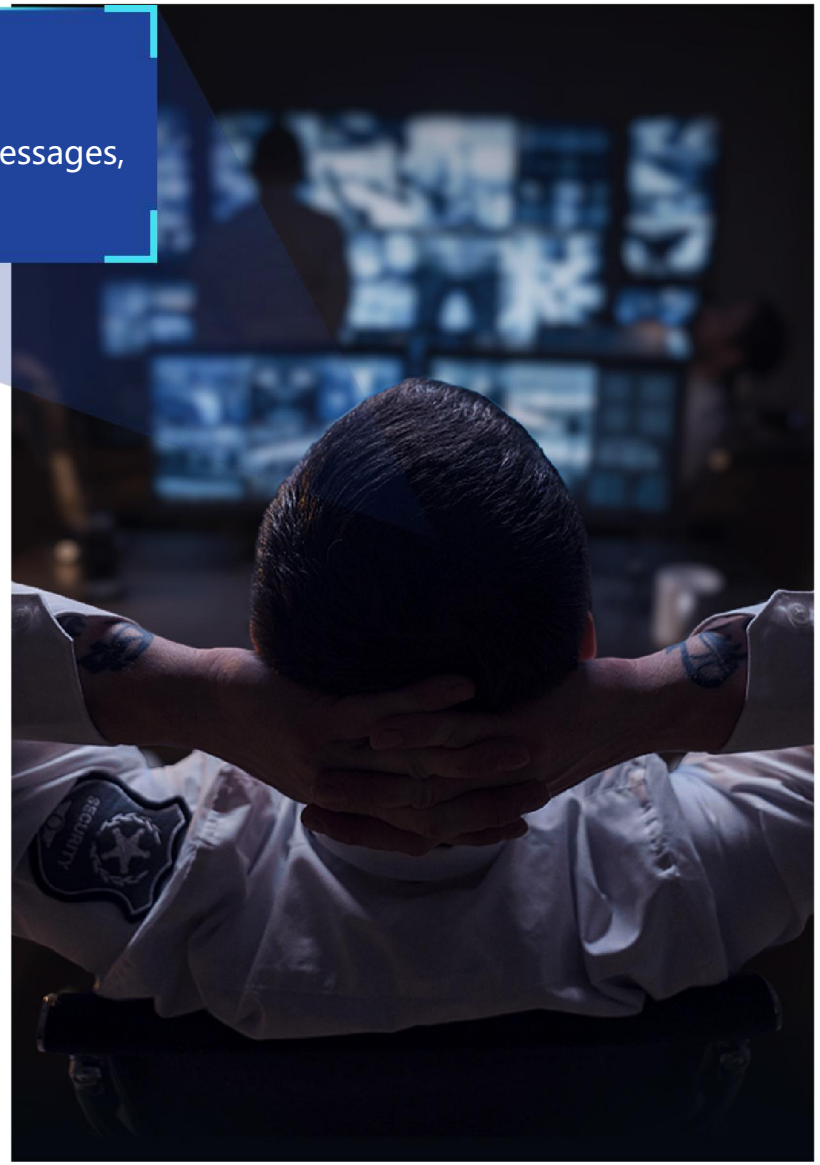




Big data analysis

WARNING!

You have 6 new messages,
View now?



According to the daily collected data, it is transmitted to the cloud in real time, and analyzed and integrated, The data list is automatically generated for easy viewing.

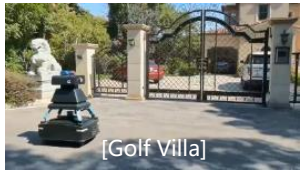
Application Scenes 1


[Juzizhoutou Scenic Spot]


[Culture and Art Center]


[Jinan Transportation Industrial Park]


[Beijing Grasse Town]


[Golf Villa]


[Jiangxinzhou Tourist Area]


[Underground garage]


[Yili Park]


[PetroChina Tianjin Building]

Application Scenes 2


[Mawan Port]


[Remote control center]


[Dalian Port]

Application Scenes 3

Police station


[Yingdong Public Security Bureau]


[TianJin Railway Station]


[Foshan Public Security Bureau]


[Sanjiang Drug Treatment Center]

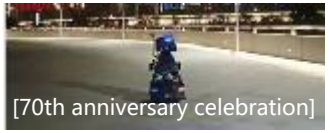

[High-speed railway public security]


[Chengdu Shuangliu Airport]

Application Scenes 4


Dubai World Expo


[2019 Big Data Expo]


[70th anniversary celebration]


[World Robot Competition]


[Two sessions of Tiananmen Square]


[Wuhan Military Games]


[Guiyang Ecological Conference]


[Safety kick-off meeting]