

# TECHNICAL SPECIFICATIONS

## ROBOT DOG

Model	PM2
Upright Dimensions (L×W×H)	930×480×925mm
Prone Dimensions (L×W×H)	930×630×540mm
Weight	46kg
Protection Level	Main Body IP67 + Upper Payload IP55
Endurance	>3h
Continuous Travel Range	>15km
Max Speed	>5m/s
Max Step Height	25cm
Max Climbing Angle	45°
Operating Temperature	-20°C~55°C

## DUAL-LIGHT GIMBAL

Horizontal Range	360° Horizontal
Vertical Range	-90°~ 90°
Visible-Light Resolution	2688×1520
Thermal Imaging Resolution	256×192
Temperature Measurement Range	Dual Ranges: -20°C~150°C ; 0°C~550°C



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# AI Patrol Wheeled Robot Dog Pro

Full-Coverage Patrol Intelligent Alerts



NEXWISE INTELLIGENCE CHINA LIMITED

## PAYLOAD MOUNTING



## CORE FUNCTIONS



### Autonomous Patrol

Self-navigates along predefined patrol routes with auto-charging capability for continuous operation.



### Accompanied Patrol

Supports moving alongside duty personnel for real-time collaborative patrol operations.



### Dual-Light Surveillance

HD visible light + thermal imaging with temperature sensing, delivering 24/7 crystal-clear imaging, real-time streaming, video playback, and forensic review.



### AI Recognition

Supports multiple algorithms including facial recognition, license plate recognition, weapon-carrying behavior detection, and fire/smoke detection, and integrates with multimodal large models for accurate recognition.



### Real-Time Alerts

Device abnormalities and AI-detected risks can be pushed to the command platform in real time to trigger graded alert responses.



### Voice Interaction

Equipped with a high-performance loudspeaker, supporting voice warnings and command delivery to enhance on-site response.



### Light Warning

Supports multiple light modes for on-site warning and safety guidance.



### One-Click Emergency Call

The one-touch SOS button enables direct communication between the site and the command center.



### Remote Control

Supports remote device operation via the management platform for flexible emergency response and complex on-site handling.



### Flexible Mobility

The wheel-legged structure enables fast movement, quick obstacle crossing, and close approach to target areas.

## CORE ADVANTAGES



### AI-Powered Autonomous Patrol

Supports real-time mapping, dynamic path planning, intelligent obstacle avoidance, and autonomous charging.



### Dual-Light Day/Night Surveillance

Combines visible-light and thermal imaging technologies to capture clear on-site images day and night, with real-time data transmission.



### Accurate Multimodal AI Recognition

Accurately identifies people, vehicles, environmental risks, and abnormal behaviors.



### Real-Time Alerts + Closed-Loop Platform Response

AI delivers instant identification and automatic alerts to realize full-process closed-loop operation.



### Hot-Swappable Battery Support

The dual-battery quick-release design enables fast battery replacement and helps reduce downtime.



### High Mobility in Complex Environments

The wheel-legged structure enables agile movement and strong adaptability across complex terrains such as grass, slopes, and steps.

## APPLICATION SCENARIOS

### Public Security Patrol

Continuous patrol coverage across assigned areas, with intelligent recognition, early warning, and response capabilities.



### Property Inspection

Autonomously performs residential community patrols and intelligently identifies anomalies for early warning.



### Industrial Park Inspection

Conducts continuous automated inspections across parks, intelligently identifying hidden risks and issuing early warnings.



### Emergency Search & Rescue

Rapidly traverses complex terrains and uses thermal imaging for precise search and rescue.

