"To Become a Global Leader in Intelligent Robots and Create a General Purpose Robot Ecosystem"

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Solutions for Security Patrol & Inspection

Shanghai AgiBot Innovation Technology Co., Ltd.
Create Unlimited Productivity via Intelligent Machines

Solutions for Security Patrol & Inspection

Scenario Pain Points	Service Enhancement
Insufficient manpower for security and O&M; low efficiency	Human-robot collaboration, reducing costs and increasing efficiency
Warning information cannot ensure real-time response	Real-time alarm information transmission
Lack of mobile/rapid arming measures	Improving inspection quality
Lack of mobile broadcasting and public announcement capabilities	Ensuring personnel safety
Urgent demand for intelligent solutions	Intelligent recognition operations

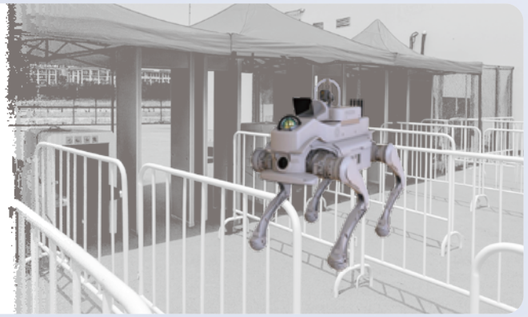
Security Inspection Solution Covers 3 Primary Scenarios and Can Be Deployed Across a Wide Range of Facilities

Security Inspection Scenarios

Airports, stations, plazas, communities, police stations, etc.

On-Site Supervision Scenarios

Special venues, major events, crowd control, checkpoints, temporary inspection points



Intelligent Inspection Scenarios

Energy and chemical plants, factories, industrial parks, data centers

Security Inspection Scenarios

Main Locations	**Stations, airports, plazas, commercial areas, hospitals, schools, communities**

Key Capabilities

- 360° dynamic video monitoring without blind spots
- Autonomous obstacle avoidance
- Gradeability: 30°
- Vertical obstacle clearance height: 20 cm
- Autonomous positioning

Value for Customers

- 24/7 uninterrupted patrol with real-time environmental monitoring
- Rapid deployment, reducing security workload
- Enhanced sense of safety and on-site deterrence

On-Site Supervision Scenarios

Main Locations	**Important checkpoints, temporary inspection points, event sites**

Key Capabilities

- Auditory and visual (A/V) warning
- Remote audio deterrence
- Warning alerts

Value for Customers

- Compact and lightweight, flexible deployment
- Rapid data transmission, human-robot collaboration

Security Service System Software

Quadruped robot cluster management

Cluster management includes robot status display, administrator status information, data display, alert display, interaction display, video display, and other information.

Real-time Monitoring

Real-time monitoring includes live display of feeds from 4 visible light cameras and 1 infrared temperature camera, supporting zooming, capturing images, recording, and adjusting image clarity.

Inspection settings

The system supports multiple inspection mode settings to meet flexible configuration requirements across various scenarios, primarily including autonomous inspection, fixed-point inspection, and remote-controlled inspection.

Video Playback

The management platform allows users to select cameras, choose a date and time range for playback, select a time period for video downloads, adjust playback timeline, display current playback time, choose to pause or play, and adjust playback speed.

Inspection task management

Primarily provides task templates (add, modify, delete), task template execution methods, and functions for starting, stopping, pausing tasks, and viewing execution records. Supports three task execution methods: on-demand execution, scheduled execution, and periodic execution.

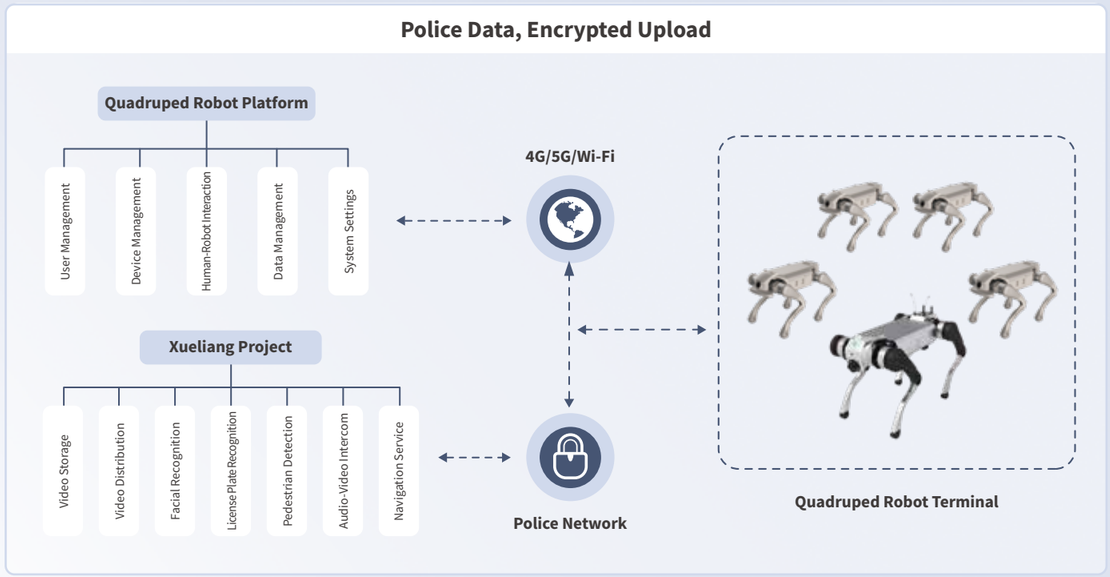
Smart alerts

The system supports customized threshold settings for various alerts. Alert types are divided into robot system alerts and operational alerts. Based on the impact level of alert events, the importance of various alerts can be defined as normal, severe, or critical. The system supports A/V warning on both the quadruped robot and the backend management platform.

Smart Monitoring

The system supports functions such as facial recognition, behavior recognition, and vehicle recognition.
The system supports real-time monitoring of environmental data such as temperature, humidity, smoke, and PM2.5.

Access Support



Intelligent Inspection Scenarios

Main Locations Energy and chemical plants, factories, industrial parks, data centers

Key Capabilities

- Route planning
- Map-based positioning
- Sensor-based detection
- Alarm reporting
- Remote guidance
- Visual recognition
- Smart operations

Value for Customers

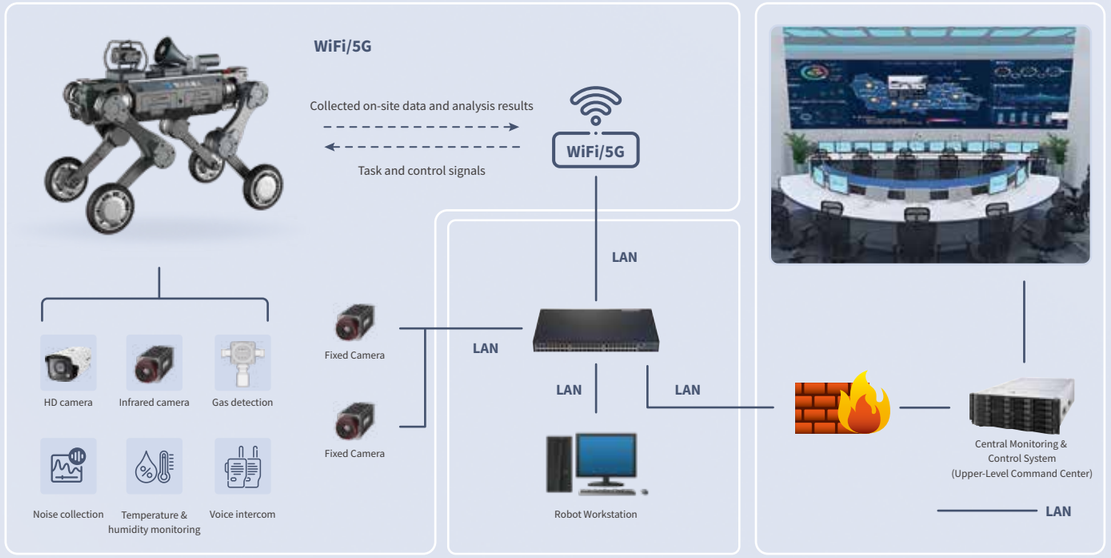
- Safe, convenient, and efficient operations
- Data traceability
- Remote operation capabilities


Open cabinet doors


Toggle switches


Press buttons

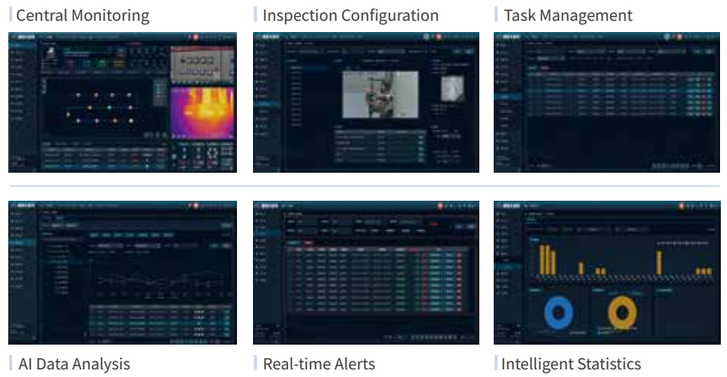
Intelligent Inspection Architecture for Substations



Substation Intelligent Inspection Management and Control Center

The robot intelligent inspection system can be deployed remotely. It mainly consists of an intelligent management platform, quadruped robots, drones, fixed cameras, and other components. The server issues commands such as control and inspection tasks, directing robots and video monitoring system to automatically perform intelligent indoor and outdoor equipment inspection operations.

Visual Inspection Management and Control Center



01

Comprehensive management and control

Central monitoring center, building an enterprise intelligent robot control system

02

Comprehensive Integration

Comprehensive integration of robots and drones, fusing data from various types of sensors

03

Intelligent Analysis

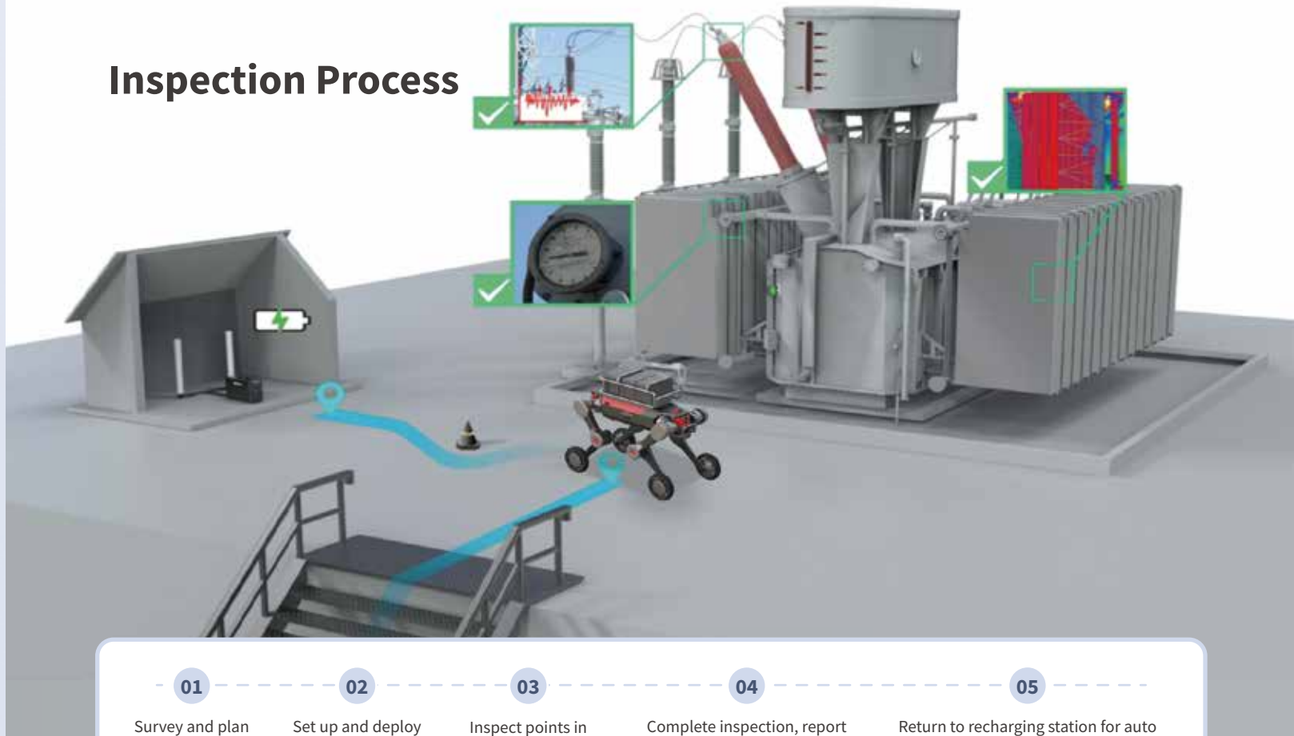
Proactive sensing, intelligent positioning, early fault detection

04

Remote Operation

Experience intelligent support through visual and remote teleoperation

Inspection Process



01 Survey and plan inspection routes

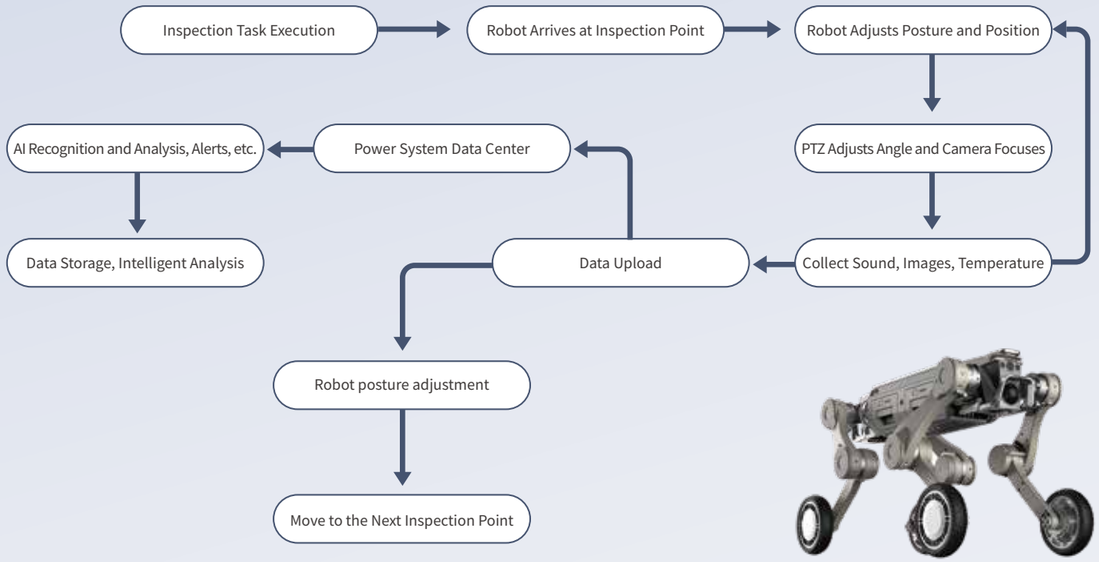
02 Set up and deploy inspection points and tasks

03 Inspect points in real-time according to navigation path

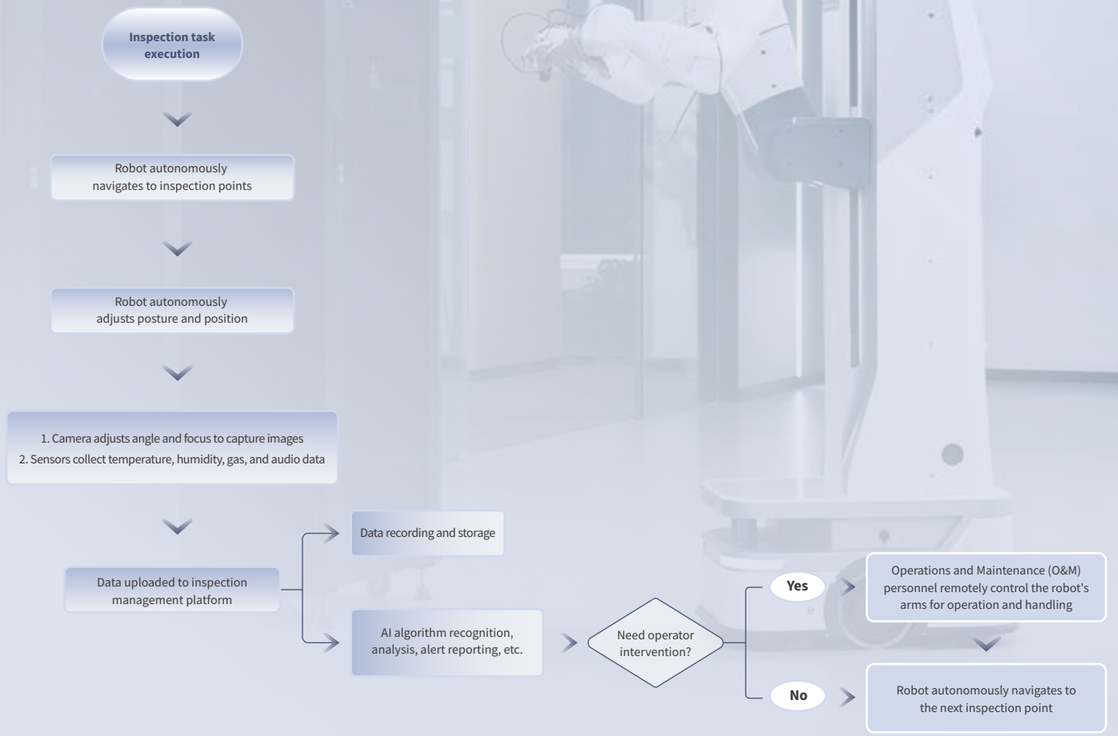
04 Complete inspection, report results in real-time, and generate inspection reports

05 Return to recharging station for auto charging, then proceed with the next round of autonomous inspection

Task Execution



Server Room Inspection Process Flow



Main Functions

Autonomous navigation, mapping, obstacle avoidance and other autonomous inspection functions;

Autonomous performance of simple inspection operations and remote handling of emergencies;

Real-time monitoring display and full audio and video recording, supporting two-way intercom between site and control center;

Autonomous recharging enables 24-hour uninterrupted inspection, supporting battery swapping for unlimited runtime;

Recognition for equipment fault alarms, dial gauges, and identification codes;

Indoor environmental monitoring for temperature, humidity, and gas;

Server Room Inspection Management Platform Functional Modules

Inspection point configuration

Inspection task management

Data analysis

Inspection log configuration sheet

Inspection tasks

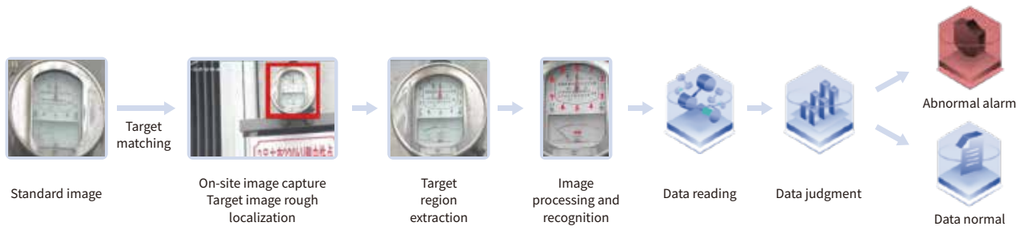
Inspection alarm list

Real-time monitoring interface

Full overview of inspection results

Alarm confirmation

AI Intelligent Recognition



Lightning arrester pointer meter

Dual-pointer gauge

Oil level gauge indicator

Breather color range

Indicator light color

Liquid level gauge color range

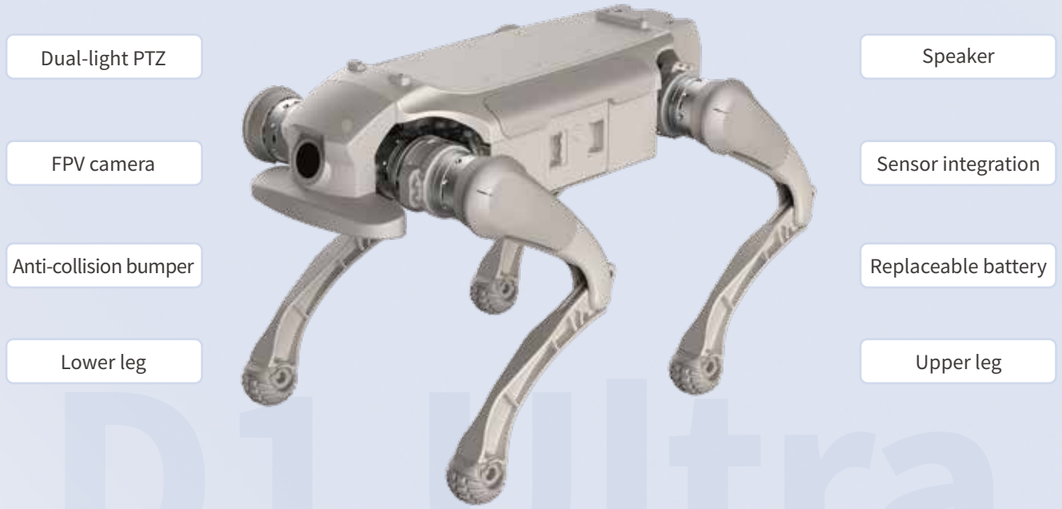
Knife switch status detection

Infrared temperature measurement

Core Products for Security Inspection

D1 Ultra | Small-sized Quadruped Robot

AgiBot D1 Ultra: The industry's only industrial-grade compact quadruped robot. Excels in moving across complex terrains: capable of running at 3.7 m/s, jumping up to 35 cm high, climbing 30° slopes, and navigating 16 cm stairs (top-tier motion performance for a compact robot). Rated IP54 for dust and water resistance and built to be rugged, durable, and impact-resistant, with 2-hour runtime under a 10 kg load.



Features autonomous patrol functionality

Equipped with a top-mounted mission package including a surveillance PTZ and a loudspeaker

Capable of performing security patrols, investigation and evidence collection, A/V warning, and audio deterrence and dispersion;

Accessories (provided by partner)

Strobe light/searchlight/ loudspeaker/ microphone (4-in-1)

Dual-mode searchlight/ strobe light

Digital voice broadcast system (optional)

Searchlight (optional)

D1 Max | Medium-sized Quadruped Robot

D1 Max, with its rich payload capabilities and superior mobility, ensures prompt arrival on-site, performs active safety interventions, executes task strategies based on large models, and autonomously complete the task from start to finish;

Features autonomous patrol functionality

Equipped with a top-mounted mission package including a surveillance PTZ and a launcher

Capable of performing security patrols, investigation and evidence collection, A/V warning, and security interventions (e.g., launching dye markers, capture nets, etc.)

Technical Specifications

Approx. 800×500×600 cm Standing dimensions	**Approx. 890×500×260 cm** Folded dimensions	**Approx. 30 kg (including battery)** Weight	**18Ah capacity** Battery
Approx. 25 kg Continuous walking load capacity	**>22 cm** Maximum step climbing height	**>45°** Slope walking capability	**4 m/s** Legged walking speed
8 m/s Wheeled walking speed	**80 cm** Obstacle clearance height	**80 cm** Trench crossing width	**Quick detachment and replacement** Wheel/leg switching
>2h Runtime at rated payload	**-20°C~50°C** Operating temperature	**IP67** Protection rating	**Gigabit Ethernet port, USB interface, serial port, power interface (12/24V)** External expansion interfaces

D1 MaxPro | Large-sized Quadruped Robot

AgiBot D1 MaxPro is a large-sized quadruped robot with superior payload capacity and exceptional locomotion capabilities.

Powered by an embedded reinforcement learning motion algorithm, it possesses true all-terrain adaptability. The robot also features built-in modules for autonomous patrol and environmental perception, enabling it to effortlessly handle industrial inspection and emergency response.

Platform

Accessories (provided by partner)

Strobe light/searchlight/ loudspeaker/ microphone (4-in-1)

Dual-mode searchlight/ strobe light

Digital voice broadcast system (optional)

Searchlight (optional)

Features autonomous patrol functionality

Equipped with a top-mounted mission package including a surveillance PTZ and a loudspeaker

Capable of performing security patrols, investigation and evidence collection, A/V warning, and audio deterrence and dispersion;

Technical Specifications

• **123x53x73 cm** Standing dimensions	• **64 kg** Total weight	• **2,160 Wh** Battery capacity	• **Supported** Automatic return to charging
• **5.5h** Battery life without load	• **2.5h** Runtime at rated payload	• **50 kg** Effective payload	• **100 kg** Max payload
• **30 cm** Maximum step height	• **IP67** Waterproof rating	• **-20~55°C** Operating temperature	

AgiBot G1

Basic Capabilities

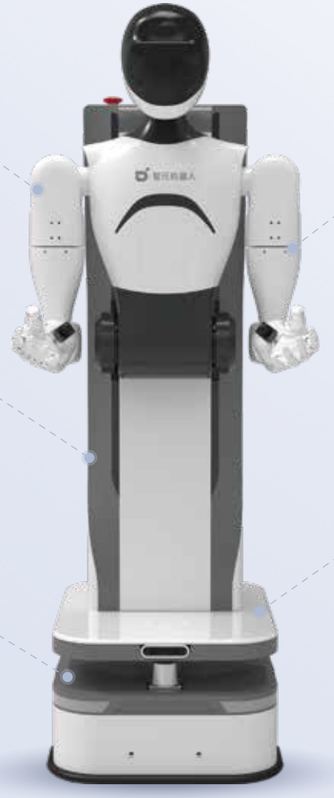
- Supports in-place turning
- Hands can reach items at 2 m high
- Grasps 3 kg objects with one hand
- Performs basic actions in factory/household scenarios

High Safety

- Immediately stops operation and triggers an alarm in case of failure
- Avoids collisions with surrounding objects during embodied movements
- Equipped with emergency stop button for timely external intervention
- Chassis movement with collision avoidance

Chassis Capabilities

- Follows motion capture operator's full-body operations and movements
- Supports in-place turning
- Fit through 95% of factory aisles
- Obstacle clearance height: 20 mm



Support Data Collection

- Supports data collection via VR/motion capture
- Asynchronous transmission to the cloud after data collection and quality inspection
- Local data backlog <1 day
- Follows motion capture operator's body movements

Stable Operation >30,000 hrs

- Industrial-grade components, tested under extreme environments
- Ensures durability and reliability for robot body
- Communication method: wired connection
- Reliable and stable data transmission

Highlights

01 Comprehensive Safety

- Real-time monitoring and alerts for main unit and remote operation equipment status
- Diverse maintenance operation buttons with one-click recovery from malfunctions
- OTA upgrades

02 Stable Operation and Mass Production Delivery

- Immediately stops operation and triggers alarm in case of malfunction
- Collision protection
- Equipped with emergency stop button
- Chassis movement supports obstacle avoidance

03 HMI System for Convenient and Efficient O&M

- Adopts selected industrial-grade components and undergoes extreme environment testing for reliable and stable operation
- Wired connection for stable data transmission
- Scalable production, immediate mass production delivery

04 Multi-Scenario Operation

- Suitable for industrial, commercial, and domestic scenarios
- 2m operating height and continuous 3 kg single-arm payload
- 26 full-body DOFs with horizontal/vertical head rotation and waist pitch-lift mobility
- Chassis supports in-place turning; Capable of navigating through 95% of factory passages and overcome 20mm obstacles

05 Multidimensional Perception

- Dual-arm six-dimensional force sensors enable precise force control
- Upper body equipped with 8 high-resolution cameras, providing 360° stereoscopic perception
- Front/rear RGB-D cameras combined with LiDAR for precision obstacle avoidance
- All sensors are precisely calibrated

06 Native Data Collection

- VR/motion capture teleoperation with millisecond latency and full-body joint data logging
- Cloud-edge collaborative data acquisition with automated validation and human review for rigorous data quality control
- Asynchronous data transmission with local backlog less than 2 hours