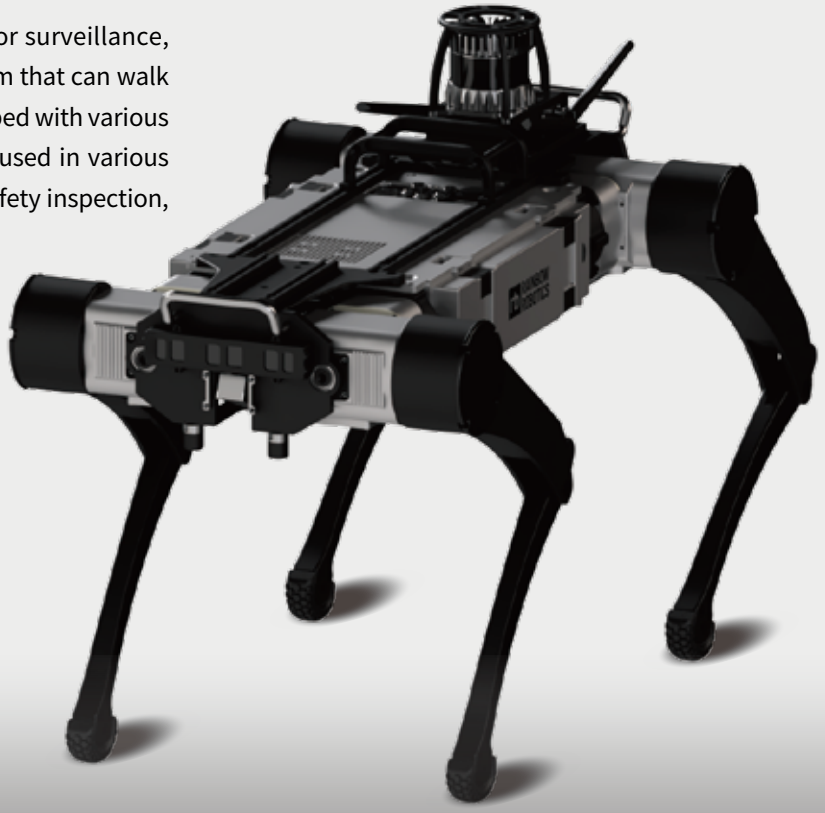
RAINBOW ROBOTICS

Quadruped robot
RBQ SERIES

The RBQ series is a quadruped robot optimized for surveillance, reconnaissance and search missions. It is a platform that can walk both rough and field areas and which can be equipped with various sensors such as lidar and cameras. It can also be used in various fields such as crime prevention patrols, military, safety inspection, logistics, etc.



Technical specifications

RBQ-3

Specification	
Size (W x L x H)	350 x 550 x 400 mm
Weight	25 kg
Payload	5 kg
Operating hours	150 min of continuous walking
IP ratings	-
Maximum speed	Walking 3.6 km/h, Running 10 km/h
Step difference (w/o visual recognition)	8 cm
Maximum climbing ability	±20°
Step walking ability	-
RGB Camera	Front x 1
Depth(stereo) Camera	-
Communication method	WiFi
External equipment interfacing	UDP channel for walk commands

※ Specifications may change to improve performance

RBQ-10

Specification	
Size (W x L x H)	550 x 1000 x 600 mm
Weight	40 kg
Payload	10 kg
Operating hours	150 min of continuous walking
IP ratings	IP54
Maximum speed	Walking 4 km/h, Running 12 km/h
Step difference (w/o visual recognition)	12 cm
Maximum climbing ability	Longitudinal slope 45%, Transverse slope 20%
Step walking ability	Steps up to 20 cm
RGB Camera	Front x 1, Rear x 1, Side x 2
Depth(stereo) Camera	Front x 1, Rear x 1, Bottom x 4
Communication method	WiFi and additional communication modules available
External equipment interfacing	ROS2 Support CAN Communication/ USB(Vision PC)/LAN(Vision PC)

Field of application

Military field
Surveillance, reconnaissance, detection of dangerous objects, etc.

Security patrol
Ordinary patrol, hazard detection and alarm

Safety inspection
Safety inspection of pipes, narrow passages, etc.

Fire safety
Detection of survivors and dangerous objects, transport of goods through narrow passages, etc.

Logistics function
art transportation within factories, last-mile logistics in the apartment complex, etc.

Convenience features
Convenience features such as serving, guiding, etc.

Use cases

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