



Portable Intelligent Reconnaissance Robot



Introduction:

Portable intelligent reconnaissance robot is rugged, small and lightweight, perfect to carry on as a back-pack. The robot survives dropping on ground and can be quickly deployed in narrow spaces, moving quietly and fast, equipped with cameras and pickups to collect real-time audio and video data of on-site environment, even in darkness.

Individuals can remotely manipulate the robot to certain places or dangerous areas while maintaining a safe distance, monitoring the place or target objects in real time, so as to make decisions and actions quickly.

The robot weighs 3.2 kg, and survives dropping from a height of 5 meters to concrete. It supports rapid replacement function modules, equipping with 3D LiDAR mapping module to build 3D point cloud model, 2D LiDAR to create layout of environment for autonomous navigation and obstacle avoidance, robotic arm to handle hazardous materials.

Features:

Light and Rugged

Weighing 3.2 kg, the robot is easy to carry and throw.

Throwable

The robot is safe to drop from the height of 5 meters onto the concrete, and self-rights when flipped over.

Numerous Accessories

Optional accessories available for multi tasks.

Wireless Ad Hoc Network

The Ad Hoc Network as a mature technology is deployed quickly and allows several



robots to join the network to cover a massive area by simply powering on, creating good communication quality while moving at high speeds.

Controlled from the Multi-robot Controller

Installed with a high-precision operator and gripper, 2 color cameras. Optional modules including 3D LiDAR, thermal camera, CBRN/ HazMat detector, etc.

Application:

- Surveillance / Reconnaissance
- Remote Inspection
- Hazardous Material Detection
- Emergency Rescue

Accessories:

Standard accessories

- Controlle
- Communication Station
- Support Rod
- Power Adaptor
- Antenna
- Packing Bag

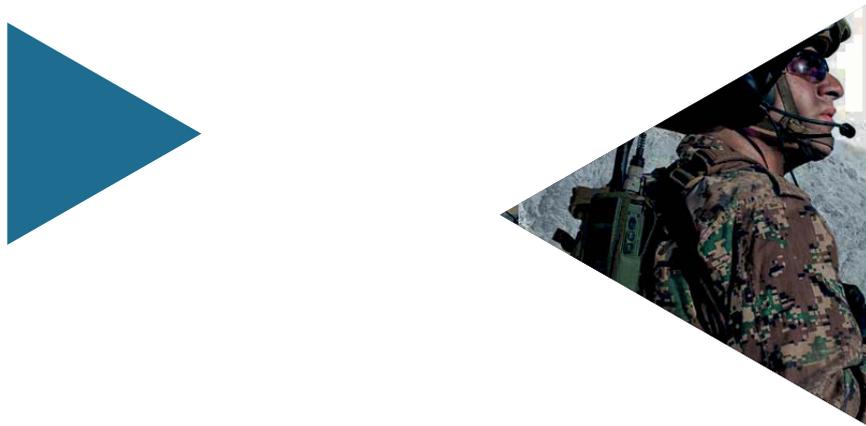
Optional accessories

- 3D LiDAR Mapping Module
- Small Lightweight Manipulator

Notice: the specifications could be changed when equipped with an optional accessory.

Specifications:

Size	276*255*120 mm
Weight	3.2 kg
Runtime	3 hours
Payload - Mobility Platform	4 kg
Mobility-Speed	Up to 6.5km/h (tracks) Up to 8.0km/h (wheels)
Mobility-Agility	Zero radius turn
Mobility-Slope	Up to 45°
Mobility -Vertical Obstacles	Up to 180mm
Dropping Height	Up to 5m
Color Camera	2
Network Type	(iMesh) Wireless Ad Hoc Network
Working Temperature	-20-60°C
Battery Life	300 discharge cycles (-20C)500 discharge cycles (≥ 0°C)



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