

RXR-MC80BD

Explosion-proof Firefighting Robot



► PRODUCT INTRODUCTION

This product is an intelligent firefighting robot designed and produced according to the GB3836-2010 explosion-proof standard. It can replace fire rescue personnel to enter the scene of flammable, explosive, toxic, oxygen deficient, smoke and other dangerous disasters to extinguish the fire, effectively solving the personal safety faced by firefighters in the aforementioned places. Simple body design, more stable, combined with high-power DC deceleration motor to make obstacles particularly simple.

► PRODUCT FEATURE

1. Whole machine explosion-proof
2. Equipped with lifting device, convenient for detecting the presence of toxic gases at different heights
3. Capable of detecting 6 types of toxic and combustible gases
4. Powerful, with a climbing angle of $\geq 70\%$, and capable of stopping on slopes without landslides
5. Driving laterally on a 30° slope without tipping over
6. The front end of the vehicle is equipped with obstacle avoidance function, which can avoid collisions when encountering obstacles
7. The water cannon can rotate and pitch, and extinguish fire in all directions
8. Equipped with a spray head, it can self cool in a fire or high temperature area to ensure normal operation of the vehicle body
9. Equipped with a thermal imager, it can accurately locate ignition points in low visibility areas

► PRODUCT FUCTION

- **Imported fire water monitor:** 80L/s flow, water/foam dual-use, range 85m
- **Image acquisition:** Collect multiple images around the robot and transmit them to the control center remotely at all times
- **Bidirectional voice:** Collect the sound around the robot body and shout it through the controller
- **Lighting:** dual LED strong lighting
- **Audible and visual alarm:** The robot body emits an audible and visual alarm during operation
- **Automatic obstacle avoidance:** detects obstacles ahead while moving to avoid collisions
- **Spray cooling:** dual water spray cooling
- **Infrared thermal imager:** detecting living organisms, fire source temperature, and fire source center point
- **Gas detection:** Detect the concentration of toxic and harmful gases at the scene of a fire and give an alarm
- **Temperature and humidity detection:** detects the temperature and humidity of the robot's surrounding environment
- **Automatic dehydration belt:** After completing the task, the water belt can be detached with one click, safe and lightweight

TECHNICAL SPECIFICATION

CHASSIS CONFIGURATION PARAMETER			
Overall dimensions	1612*910*1427mm	Anti-overturning function	Yes
Weight	720Kg	Anti-collision function	Yes
MAX obstacle crossing	>220mm	Gas collection	6 harmful gas
MAX climbing angle	>70%	Protective grade	Chassis IP67, Top IP65
RC distance	1200M	Endurance	>5 hours
Straight speed	>1.5m/s	Load capacity	About 100kg
Straight running deviation	<3%	Ability to drag water hoses	2pcs 80 water belt 100M
braking distance	<0.3m	Driving control mode	Wireless control, redundant control
Spray cooling device	Yes, self cooling system	Tilt angle	>30°
FIRE EXTINGUISHING SYSTEM CONFIGURATION PARAMETERS			
Working pressure	1.0MPa	Pitch angle	≤ -15 °,>90 °
Spray range	Water>85M, foam>80M	Rotation angle	≤ -90 °,>90 °
Flow	80L/s		
CAMERA SYSTEM PARAMETER			
Work voltage	DC12V	Average relative humidity	<95%(+25°C)
Signal system	>1.0Mpa	Pan tilt performance	Initial height<1500mm, height after lifting>1900mm
CONTROL BOX CONFIGURATION PARAMETERS			
Dimension	467x366x188mm	Work voltage	24VDC/12VDC
Weight	<4KG	Image transmission data transmission frequency	6 units working simultaneously without interfering with each other
LCD screen size	15.6 inch	Form	portable

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