

SMART EXPLOSION-PROOF FIREFIGHTING AND SCOUTING ROBOT

 Omnidirectional perception

 Precise positioning

 Equip good quality fire monitor



Product Introduction

RXR-MC80BD

The smart fire-fighting robot is designed by Zhejiang HuaXiao Technology Co., Ltd. which consists of body, fire monitor, binocular thermal camera, and Hand-held remote terminal. It can be applied to various fields of firefighting and detection, especially in explosive environments such as petrochemical and gas. It has great significance in improving the safety of rescue and reducing casualties.

Product Features

Intelligent video surveillance

Hybrid thermal camera with 360° panoramic view system and Real-time image recording.

Intelligent fire extinguishing

Intelligent linkage between fire monitor and thermal camera, automatically fire source search, accurately fire extinguishing.

Intelligent remote control

The one of the first companies in the industry to use handheld remote control in stand of traditional knapsack operation control box.

Intelligent operation system

You can operate the robot using remote controller, voice, tablet.

Intelligent perception

The device can detect the gas, temperature and have the obstacle avoidance ability and anti-overturning technology.

Technical Specification

Basic parameters	
Dimension	Fire fighting and reconnaissance in various fields, especially suitable for explosive environments such as petrochemicals and gas.
Explosion-proof model	Exde [ib] IIB T5 Gb
Dimension	1600(mm)×1040(mm)×1280(mm) 63.00'' ×40.95'' ×50.39''
Net Weight	700kg
Running Gear	High strength track with steel construction
Max. Towing Capacity	5300N
Walking Speed	0~1.56m/s
Obstacle Crossing Ability	250mm
Max. Gradeability	70%(35°) slope or stair
Tilt Range	39°
Stopping Distance	0.17m
Turning Circle	360° rotation in place
Wireless Control	Support
Max. Transmission Distance	1.3km
Max. Fording Depth	350mm (It will not take in water after soaking for 1h under normal pressure)
Protection Grade	IP66
Max. Full Speed Walking Time	3h
Max. Operating Time	16h

Product Advantage

- Explosion-proof and waterproof design, especially suitable for explosive environment.
- The device can support 2 fire hoses with universal joint to avoid them tie up during working.
- Strong towing capability can carry tow 60m 80mm fire hoses which are full of water.
- Remote controller can control fire monitor achieving omnidirectional fire extinguishing with wide pan/tilt/rotation range, using water or foam.
- Built-in cooling system to keep the temperature of device from exceeding limits.

Hybrid Thermal Camera	
Visual channel: support 30x optical zoom Thermal channel: support high precision non-contact temperature measurement, support fire detection and alarm	
Lift Pan	
Horizontal	0°~360°continuous rotation
Vertical	-90°~+90°
Fire Monitor	
Type of Extinguishing Agent	Water or foam
Operating Pressure	0.8~1.2MPa
Spraying Pattern Types	Columnar or atomized, continuing adjust
Max. Flow	80L/s
Max. Range	88m
Rotation Range	Horizontal-90°~+90°, vertical-15°~+90°
Hand-held Remote Terminal	
Dimension	370(mm)×245(mm)×70(mm) 14.57'' ×9.65'' ×2.76''
Net Weight	4.6kg
Max. Working Time	4h
LCD Screen	10.1inch LCD screen
Image Display	Three channels images

- The device can collect the visual images, thermal images, gas composition, temperature and humidity and other information, then synchronously send to the remote controller for analysis and storage.
- Advanced wireless communication technology, which has long communication distance and strong anti-interference ability.
- Strong Obstacle Crossing Ability 70%.
- Independent suspension damping system, high impact resistance.
- Automatic lifting platform can lift the detection devices automatically.
- Automatically removing the hose after complete firefighting tasks (optional offer).