1.3 RXR-M120GD-AHHC four-wheel drive fire extinguishing robot



Overview

The robot consists of a four-track chassis, a fire cannon and a handheld terminal. It can effectively replace trailer cannons and mobile cannons. It uses its own power to remotely control the fire cannon or water mist blower to the required position; it can effectively replace fire fighters near fire sources and dangerous places. Carry out reconnaissance, fire extinguishing, smoke exhaust and other operations. Operators can carry out fire-fighting operations up to 1,000 meters away from the fire source to avoid unnecessary casualties.

Product advantages_

- The four-track carrier mechanism design has strong off-road capability and good passability. It can easily pass through soft ground and large slopes, ditches and other obstacles. It has a small turning radius and flexible steering, and is not affected by weather, terrain and other factors. It is especially suitable for Water, ice, snow, mud, potholes and other complex terrains.
- Remotely control the rotation, pitch, or set any angle of the fire monitor, automatically sweep,automatically return to position,and automatically switch the spray mode;
- Equipped with a water spray active cooling system, which can realize mutual conversion between automatic control and manual control;

- High-power servo drive system, strong fire hose dragging ability;
- MESH wireless digital transmission system has long communication distance and strong anti-interference;
- High-definition video collection system, long-distance video surveillance, flame and smoke identification;
- Equipped with a variety of gas detection equipment to meet different on-site needs;
- Equipped with a millimeter-wave radar obstacle avoidancesystem, it can
 automatically identify the distance of obstacles, with high sensitivity and long
 distance of obstacles.
- High power lighting system with long auxiliary lighting distance and wide coverage.

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Product features

Radar function long term operation Equipped with a strong cooling water cooling system, the whole machine can operate efficiently for a long time. Environmental detection function Video surveillance function The robot is equipped with temperature and humidity sensors to measure the temperature and humidity environment on site. video collection. Ranging function Quick charging function A fast charger is installed on the chassis to fully charge the robot battery quickly. and the remote control displays the data. Fire extinguishing function Gas detection function (optional) The fire cannon not only ensures an adequate supply of water flow, but also improves the effective use of fire flammable gases at the accident site water, and the fire water cannon can swing at any and the remote control panel displays the data. angle. Thermal imaging system (optional) Integrated transmission of images and numbers Robots and handheld remote control terminals can

realize point-to-point and point-to-multipoint control methods through the wireless image-digital integrated digital transmission module, and can also add relays in tunnels, highways or underground tunnels to realize the resuming transmission function

On-site rescue

The robot has a certain load capacity and can drag rescue vehicles into disaster scenes to rescue trapped people in a timely manner.

The front end of the robot is equipped with an ultrasonic

The 360° PTZ monitoring system and high-definition camera can realize all-round and three-dimensional

The front end is equipped with a laser range finder to measure the distance from the robot accident site,

The robot can detect the content of 8 toxic, harmful and

The advanced polycrystalline silicon uncooled focal plane infrared detector can clearly present the infrared thermal image of the object under observation. It has no baffle design and the observation image is not interrupted.

Technical parameters

| Product model | RXB-M120GD-AHHC |
|--|--|
| Basic configuration parame | eters |
| Applicablefields | Fires in highway (railway) tunnels, fires in subway stations and tunnels, fires in underground facilities and freight yards, fires in large-span and large-space factory buildings, fires in petrochemical oil depots and refineries |
| Overalldimensions | Length 2262× Width 1593× Height 1382mm |
| Curb weight | 2000Kg |
| Running gear | All-terrain high-strength crawler tracks with an internal all-metal skeleton |
| Traction | 11KN |
| Ground clearance | 250mm |
| Turning radius | Can turn in place |
| Vertical obstacle clearance height | 400mm |
| Roll stability angle | 30° |
| Climbing ability | 30° |
| wading depth | 300mm |
| straight speed | 3m/s |
| Full power continuous working capability | 10h |
| Protection level | IP65 |
| Chassis drive form | |
| Chassis model | ATV hydraulic self-propelled |
| Engine power | 46kw (2200r/min) |
| Traveling speed | 0-12Km/h |
| cooling system | Maintenance-free oil cooling system |
| Water mist protects itself | Auto body water mist spray protection system |
| Manipulation form | Electronic wired and wireless remote control, remote control distance 1000m. |
| Hydraulic tank capacity | 50L |
| Hydraulic reservoir capacity | 50L |
| continuous working time | 10h |
| Drive form | Four-track walking mechanism |
| | |
| lighting equipment | t configuration parameters Front 2*35W, rear 2*15w |
| Gas detection type (optional) | 8 kinds |
| | |
| Reconnaissance system | Thermal imaging system (optional) + wireless high-definition infrared pan-tilt camera system |
| Voice system | Two-way audio transmission |
| Fire monitor configuration | |
| Fire extinguisher type Material | water or foam |
| | Anti-corrosion high-strength aluminum alloy |
| work pressure | 0.8MPa |
| water cannon flow Foam cannon flow | 120L/S |
| | 120L/S |
| water cannon range | 100m |
| foam cannon range | 95m |
| Horizontal angle of rotation | -90~90° |
| pitch angle | -30~90° |
| Image acquisition configuratio | |
| camera | four |
| Horizontal rotation range | 360° continuous rotation |
| vertical rotation range | Vertical +90° ~-90° |
| Effective pixels | 2.8 million pixels |
| Resolution | 1920 (H) *1080 (V) |

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| Handheld remote terminal configuration parameters | |
|---|--|
| Remote control range | 1000 meters (with no obstructions) |
| Weight | 5kg |
| Work hours | 5h |
| Display screen | 10.1-inch high-definition, high-brightness display screen |
| Video output | One-to-two HDMI video output |
| One-to-two HDMI video output | Supports video recording and can copy with TF card. |
| Video display | Supports 4-channel AHD video display and can switch between single and quad display modes. |