



Application

- Transfer of the suspicious objects in public places (metro, airport, railway station, shopping mall, conference center, etc.)
- Material fetching and transfer under hazardous biological and toxic environment.
- Reconnaissance, material fetching and transfer within the ruins environment after disaster. Material fetching and transfer under nuclear radiation environment.



General specifications

Robot Body	
Maximum Speed	1.0m/s
Battery	Rechargeable battery
Materials	Aircraft-grade aluminum alloy, precision machining
Lift Capability	It can move with clamping weights of 30KG and will not drop (actual measurement).
Dimensions	LWH: 920 * 625 * 515 mm
Over-obstacle Capacity	It can cross the obstacle of 280mm height.
Working Time	≥3 hours when fully charged (Combined Cycle Conditions)
Climbing Stairs Ability	With traction-free assist, it can climb up and down the stairs of 160mm step height and 45° angle slope.
Weight	92.8kg (without accessories, package and control box)
Limited Passage Width	≤700mm
Turning Ability	In horizontal cement ground or bituminous pavement, the robot can turn clockwise or anticlockwise 360°.
Max. Mechanical Arms Spread	1650mm
Drag Capability	500N
Loading Capacity	When loading 150KG, it can move normally (actual measurement).
Grade Ability	It can climb the slope of 45° and stop steadily on the slope.
Arm Extension when stretch out and draw back	500mm
Gripper of Manipulator	250mm
Maximum Expansion Range	
Control Box	Via the buttons and handle of control box, the operators can control video switch, zoom, moving, cradle rotating, floodlight, telescopic arm, gripper opening and closing, small arm rotating, big arm lifting, kidney basin rotating, wrist rotating, etc.
6 Mechanical Arm DOFs	Manipulator gripper opening and closing Manipulator gripper rotation Small arm rotation Telescopic arm extend and retract Big arm rotation Big arm rise and fall
Rotation Angle	Manipulator gripper can rotate clockwise and anticlockwise 360°; Small arm can rotate clockwise 150° and anticlockwise 110°; Big arm can pitch angle of 90°; Kidney basin can rotate clockwise 180° and anticlockwise 45°





MTC-RB8500XPRO

EOD Robot

Control Distance	Wireless control:150 – 800 m (depending on environmental conditions); Wired control: 100m
Number of Cameras	4
Forward Camera	Low-light camera
Backward Camera	Low-light camera
Cradle Head Various focal Camera	Low-light camera
Manipulator Gripper Camera	Low-light camera
Floodlight	Two group LED floodlight (one group on the front and back)
Monitoring cradle head	
DOFs of Cradle Head	2 independent DOFs, adjustable rotation speed. Cradle rotation: 360° continuously, maximum rotation speed of 130° per second. Cradle pitching: -45°~ 120°, maximum pitching speed of 50° per second.
Control Terminal	
Box	Portable, waterproof, dustproof, high strength
Size	≤ L 460 * W 370 *H 260 mm
Weight	≤ 10kg
Display Screen	12-inch HB LCD, wide viewing angle, outdoor clear picture
Operation	High-quality rocker handle, human software interface design, easy observation and convenient operation
Display Image	It can monitor 4 video signals simultaneously or separately amplify one of 4 video signals
Information Display	Real-time battery status
Battery	Rechargeable 24V lithium battery, working time 3 hours when fully charged.

