



MR-7

Mobile Robot for Hazardous Tasks

MR-7 is an advanced small robot for Explosive & Ordnance Disposal (EOD) and other hazardous tasks

MR-7 is a small remotely operated mobile robot that provides all the basic capabilities of its larger counterparts - at a significantly lower cost. It is ideally suited for EOD, SWAT, HazMat, surveillance and other hazardous tasks. This rugged robot can be used in any weather condition, in almost any terrain. The vehicle is highly manoeuvrable and also stable on steep slopes and stairs. Two people can carry MR-7. It operates in narrow passages including aircraft/bus aisles. Highly dextrous arm allows for precise handling of objects and accurate aiming of weapons.



FEATURES

- Compact and lightweight
- Rugged – all-weather, all-terrain
- Low cost, low maintenance
- Operates in standard aircraft/bus aisle
- Stable climbing and descent on stairs
- Dextrous arm with up to six joints
- High-precision joint control
- Arm removable – can be used as a platform
- Portable lightweight control panel

PATENT PENDING



MOBILE ROBOT SYSTEMS DIVISION

SPECIFICATIONS

DIMENSIONS

- W: 17.7" (45 cm) x L: 38.6" (98 cm) x H: 32" (81 cm)

WEIGHT

- 230 lbs. (104 kg) - loaded

CLIMBING ABILITY

- Slopes 40°
- Stairs 40°
- Obstacles height 8" (20 cm); width 8" (20 cm)

MANEUVERABILITY

- 360° turns in a 45" (115 cm) wide hallway
- Proportional control of drive motors
- Negotiates curbs, ditches, and other obstacles

SPEED

- Variable 0 to 1.9 Mph (3.0 Km/h)

DURATION OF MISSION

- Battery power 1 – 3 hrs

REACH

- Horizontal 45" (114 cm) from edge of platform
- Vertical 66" (168 cm) from ground

LIFT CAPACITY

- Arm fully extended 17.5 lbs. (8 kg) minimum

COMMUNICATION

- Cable or wireless

ENVIRONMENTAL

- Operates on all surfaces and in all weather

FEEDBACK

- Camera images (picture-in-picture); diagnostic messages; battery status

STANDARD CONFIGURATION

- Vehicle: Tracks with independently controlled drives; 48V battery pack
- Arm: Shoulder 240°
Elbow 310°
- Wrist: Roll unlimited
- Gripper: Fully 8" (20 cm)
- Cameras: Gripper - colour, 300:1 zoom
Drive - colour, wide angle
Surveillance - colour, 300:1 zoom, pan +/- 170°, tilt +/- 170°
- Control Station:
Weatherproof enclosures
10" LCD monitor
Simultaneous camera images
Battery charge indicator
Portable Control Panel
- Communication: cable reel with manual rewind
- Battery charger & tool kit
- Operating/maintenance manual

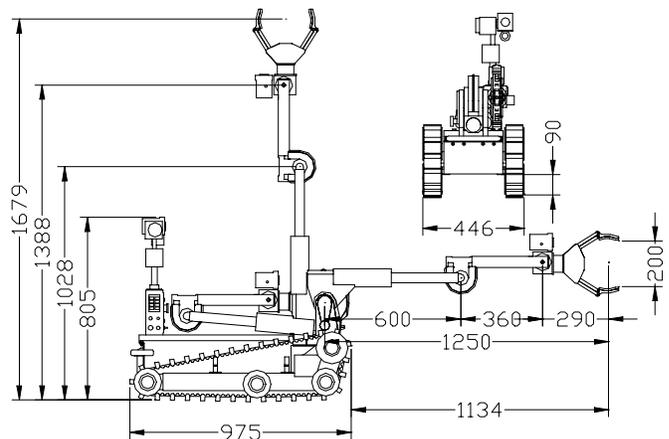
OPTIONS

- Turret: +/- 100°
- Wrist Pitch: +/- 100°
- Linear extension: 4" (10 cm)
- Night vision: Infrared camera
- Surveillance camera extension arm: 24" (60 cm)
- Wireless: LOS 1,600 ft. (500 m)
Urban 650 ft. (200 m)
- Cable: Motorized 650+ ft. (200+ m)
- Disrupter mount
- Laser pointer for disrupter
- Shotgun mount
- X-Ray mount assembly
- Window breaker assembly
- Drop-charge reel

ACCESSORIES

- Disrupter
- Shotgun
- X-Ray unit
- Compliant key insertion holder

Specifications are subject to change without notice



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