



Security Defence Systems

Plot No. 50, DIC, Industrial Area , Baddi, Solan (H.P)

Web: www.sdschd.com

Email: rajeshmkt@yahoo.com

Phone: 0172-2632668

raghavendersahdev@gmail.com

Mobile: 09814014406

Fax: 0172-2633668

ROVER MARK-1



MODEL : ROVER MARK - I

STRUCTURE INSTALLATION

The ROV is able to carry out EOD and surveillance of the following structures/installation:

1. Building Operations & installation.
2. Urban Transportation Location.
3. Passenger Terminals
4. Inside Aircraft

KEY TECHNICAL FEATURES

The ROV is having the following key technical features:

1. Weight man portable – not more than 90 kg for basic unit
2. Climbing ability – 45 degree stair/slopes.
3. Video color camera, driving reverse camera and aiming camera.
4. Night vision capability with IR camera.
5. It is provided with EOD manipulator arm with camera & white floodlight.



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6. Aiming with the help of both camera & laser aiming pointer.
7. Lifting Capability of 10 kg with arm fully extended.
8. Spot lights -
 - For driving camera
 - For aiming camera compatible with video camera

CONTROLS

1. Provided with radio control for Urban / Built-up area of 200m.
2. Provided with radio control for open area of 1Km.
3. Provided with fiber optics control of 100m.

EOD OPTIONS

1. Water jet disruptor.
2. Charge Dropper Assembly.
3. RTVS Mount.
4. Lifting Bracket for articulated movement of key opening.

POWER SUPPLY

1. AC to DC via on-board power convertor with cable min 100m.
2. Rapid rechargeable SMF batteries.
3. Battery capacity: Driving endurance & Operational endurance of 2 hrs.
4. Battery charger to be provided with maximum charging time for charging not more than 8 – 12 hrs.

BASE STATION

1. It is compact and light weight.
2. Portable control system.
3. Display unit with a high resolution LCD screen.
4. It is capable of powered on mains and battery both.
5. It has picture in picture display with camera selection by way of touch screen.
6. It has joystick control.
7. It has inbuilt safety feature.
8. It has essential operational controls.

OPERATING TEMPERATURE

-10°C to +55°C



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ROVER MARK- II



MODEL : ROVER MARK - II

STRUCTURE INSTALLATION

The ROV is able to carry out EOD and surveillance of the following structures/installation:

5. Building & installation.
6. Urban Transportation Location.
7. Passenger Terminals

KEY TECHNICAL FEATURES

The ROV is having the following key technical features:

9. Weight vehicle portable – not more than 300 kg.
10. Climbing ability – 30 degree stair/slopes.
11. Video color camera, driving reverse camera which can aim with pan and tilt capability.
12. Night vision capability with IR camera.
13. It is provided with EOD manipulator arm with camera & white floodlight.
14. Aiming with the help of both camera & laser aiming pointer.



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15. Lifting Capability of 10 kg with arm fully extended.
16. Spot lights –
 - a. For driving camera
 - b. For aiming camera compatible with video camera

CONTROLS

4. Provided with radio control for Urban / Built-up area of 200m.
5. Provided with radio control for open area of 1Km.
6. Provided with fiber optics control of min 100m.

EOD OPTIONS

5. Water jet disruptor.
6. Charge Dropper Assembly.
7. RTVS Mount.
8. Lifting Bracket for articulated movement of key opening.

POWER SUPPLY

5. AC to DC via on-board power convertor with cable min. 100m.
6. Rapid rechargeable SMF batteries.
7. Battery capacity:
 - a. Driving endurance – 2hrs
 - b. Operational endurance - 4 hrs.
8. Battery charger to be provided with maximum charging time for charging not more than 8-12 hrs.

BASE STATION

9. It is compact and light weight.
10. Portable control system.
11. Display unit with a high resolution LCD screen.
12. It is capable of powered on mains and battery both.
13. It has picture in picture display with camera selection by way of touch screen.
14. It has joystick control.
15. It has inbuilt safety feature.
16. It has essential operational controls.

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ROVER MARK- III



MODEL : ROVER MARK - III

INCLINE ASCENT/DECENT

The ROV is able to ascend/descend a slope of a minimum of 45 degrees.

GENERAL SPECIFICATION

The ROV is having the following key technical features:

17. Platform Dimensions: Able to fit through an aperture measuring (H x W) of (720MM x 680MM) or (28.35"x26.77")
18. Overall Weight (platform): max 100lb (45.4 kg) to allow the platform to be two-man-portable.
19. Overall Weight (platform, OCU & transit container): max 150lb (68.1kg) to allow complete system to be loaded/transported prior to deployment.
20. Running Gear Tracks: min 4"width (10cm) wheels are off road capable, min 4"clearance from base.
21. Packing container: provision of packing container for protection of system components, box able to contain both platform/OCU.
22. Tools: ability to attach tools (including disruptor) to the arm.
23. Firing systems: two independent firing circuits.
24. Lights: sufficient light systems to operate in the dark.



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COMMUNICATION FEATURES

7. Operating System: Ability to change frequency setting dependent on the environment conditions at the time of operating.
8. Communications:
 - a. Ability to control the platform via the operational control unit (OCU) at a distance of at least 200mtrs.
 - b. Ability to allow multiple platforms to be operated from the same incident control point (ICP)

MANIPULATION FEATURES

9. Shoulder rotation of no less than 200 degrees of rotation.
10. Elbow rotation of no less than 180 degrees.
11. Ability to lift a weight of no less than 10lb(4.6kg) fully extended (min two feet arm range from the front of the rov) or 25lb(10.5kg) when retracted.
12. Continual wrist rotation of the manipulator (gripper) assembly.
13. Manipulator assembly able to open to minimum width of 5”(12.7cm)

CAMERA FEATURES

Multiple Cameras: A minimum of 3x camera system mounted on to the platform, front and back side covered.

- a) **Front camera:** minimum 120 degree view ability, fixed or movable
- b) **Pan/Tilt Color Camera:** provision of color imagery to OCU via 100 degree tilt and 180 degree pan abilities, has pan/tilt capability for target assessment & RSP

ENVIRONMENTAL PERFORMANCE

17. **Incline Ascent/Descent:** able to ascent/descent a slop of min 45 degrees without affecting performance.
18. **Curb ascent/descent:** able to ascend/descend over a curb height no less than 4” (10cm) without impending performance.
19. **Mobility:** ability to operate in an area containing loose sand to depth between 2” & 4” (5-10cm) without impending performance.
20. **Endurance:** ability to operate for a duration not less than 60 mins (constant) & 2 hrs. intermittent (with operation cycles in total).
21. **Vulnerability:** ability to operate within an environment which contains sand/dust particles.

COMMAND CONTROL

- Radio Control
- Color Screen



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ROVER MARK- IV



MODEL : ROVER MARK - IV

This is the Rover Mark IV Robotic platform. The rover mark IV is small, lightweight, affordable robot designed for surveillance, reconnaissance and inspection. The Rover Mark IV is a tracked platform with a fixed front facing camera, a lightweight shell and the ability to turn on a dime. The Rover Mark IV is designed to be rugged and withstand the daily abuse of tactical operations.