

SCOUT

Small robotized unit
for reconnaissance



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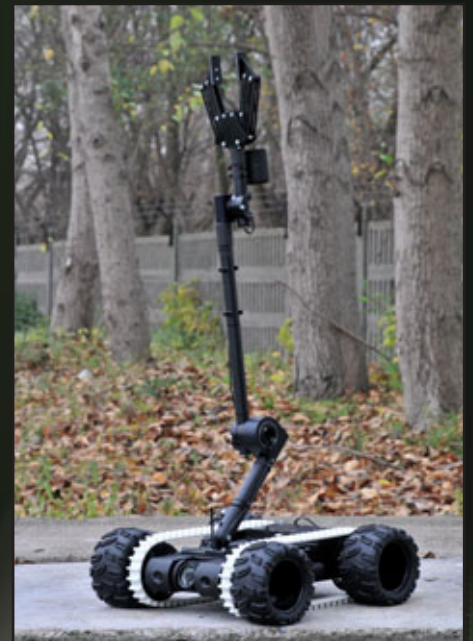
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SCOUT is a robot designed for quick reconnaissance of field and places difficult to access, i.e. vehicles chassis, places under seats in means of transportation, narrow rooms or ventilation ducts. The robot SCOUT basic moving assembly consists of hybrid system (caterpillars-wheels), but if necessary, a moving wheels can be dismantled. Solid construction of small dimensions and small weight

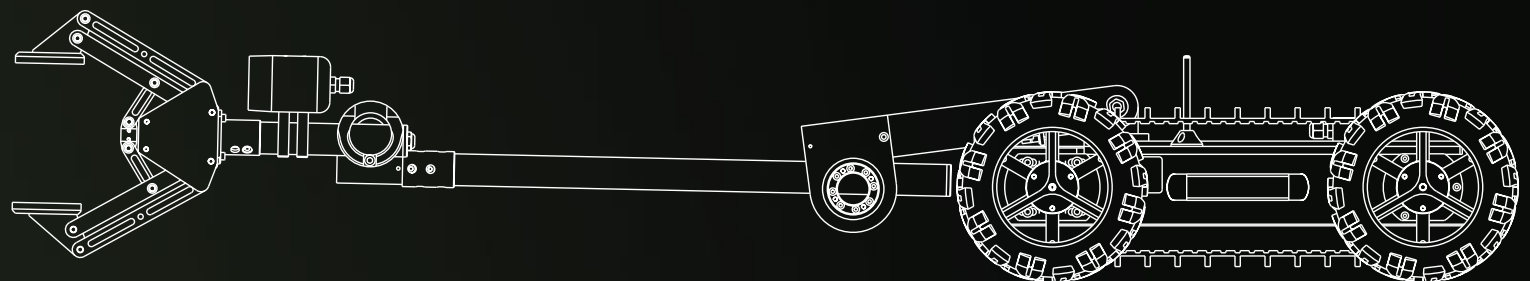


with dynamic driving system provides high maneuverability and high speed of the robot (10 km/ hr). Application of the robot can be multiplied by mounting additional devices on its mobile base i.e.: manipulator with a grip, cameras, additional front caterpillars, handle and cabling for recoilless disrupter, digital camera and cabling for recording the vision and microphone signals, chemical contamination detector, X-ray device, fibre-optic cable with active automatic roller.



Unique features of SCOUT robot

- The small robot dimensions enable for swift inspections of hard to reach areas and rooms;
- The robot wheels are easy to dismantle. This allows for a limitation of the robot's overall dimensions and operation in spaces that are hard to reach;
- The very low robot weight enables for its transport in a typical military knapsack;
- Thanks to the drives used, the robot efficiently travels across area unevenness and obstacles of inclination angle up to 45°;
- The module robot structure enables for an easy and swift replacement of any additional equipment;
- The robot is able to carry loads with its manipulator - from 2 kg (with the manipulator fully extended) up to 5 kg (with folded manipulator);
- Both the robot and the manipulator may be controlled from the operator's station (in a form of a small and light weight-suitcase);
- The optional use of the optic fibre transmission enables for robot's operation at significant distances, even in an environment of high electromagnetic noise level;
- SCOUT robot can be adapted to various applications:
 - ✓ use by special squads: neutralization of explosives, negotiations with terrorists, recording of operation course, taking Roentgen images,
 - ✓ use by commercial firms: inspection of ventilation ducts, inspection of areas exposed to chemical or biological pollution, support in location of defects in places difficult to access by a man.



Technical data

Dimensions with wheels	h 180 mm, w 543 mm, l 530 mm
Dimensions without wheels	h.145 mm, w 328 mm, l 495 mm
Weight	12,5 kilo
Speed	approx. 10 km/h (depends on load)
Radio control	approx. 300 m

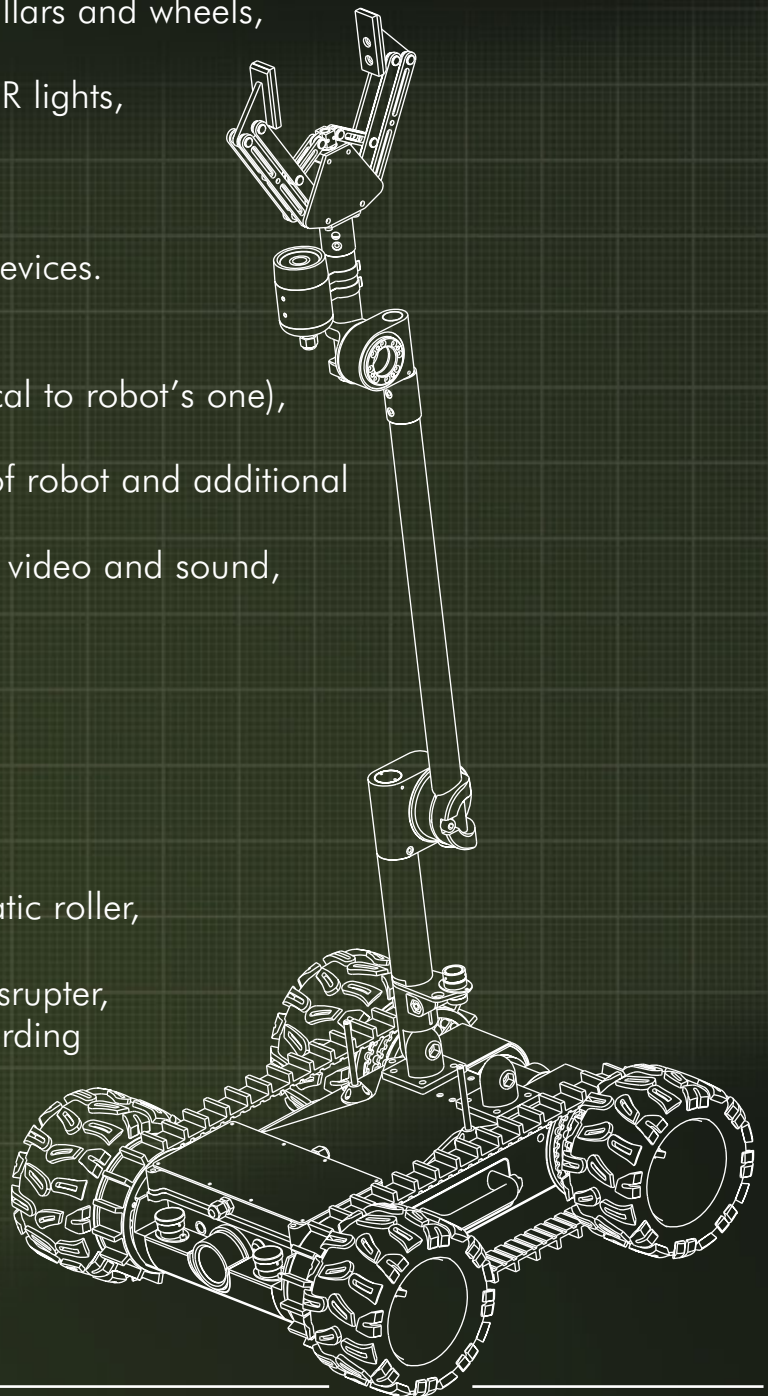
The manufacturer reserve the right to change the robots features and technical parameters.

Standard version of SCOUT unit

- Mobile platform:
 - ✓ suspension system consist of caterpillars and wheels,
 - ✓ replaceable Li-Poly batteries,
 - ✓ adjustable color front camera with IR lights,
 - ✓ color back camera with IR lights,
 - ✓ microphone,
 - ✓ radio control,
 - ✓ two sockets for supplying external devices.
- Control panel:
 - ✓ replaceable Li-Poly batteries (identical to robot's one),
 - ✓ 7" LCD monitor,
 - ✓ two joysticks for precise operation of robot and additional equipment,
 - ✓ one socket for external recorder for video and sound,
 - ✓ aerials for radio transmission.
- Li-Poly battery charger.

Optional equipment:

- ✓ manipulator with a grip,
- ✓ cameras,
- ✓ fibre-optic cable with active automatic roller,
- ✓ additional front caterpillars,
- ✓ handle and cabling for recoilless disrupter,
- ✓ digital camera and cabling for recording the vision and microphone signals,
- ✓ chemical contamination detector,
- ✓ X-ray device,
- ✓ Set of additional batteries for therobot.



The equipment of the robot can be extended with other devices chosen by the client or developed according to the special order . It is also possible to modify the robot to adapt it to the client's needs.