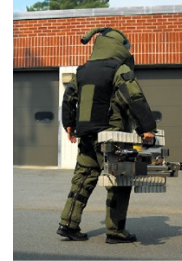
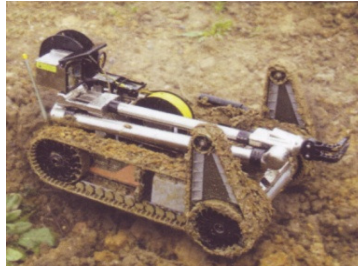




Intelligent ROV small sized iRobot „Packbot® EOD 510 Rocky“ Art.-No.: 160276



PackBot® EOD

PackBot®EOD stands for a small, light weight robot designed for special tasks under hazardous conditions like Bomb disposal (IED/EOD) or hostage situations as well as many other police and military special forces activities. Since 2002 the product has proved its worthiness with more than 3000 vehicles deployed world wide in the most dangerous areas of war and security.

The vehicle weighs less than 24 kgs fully loaded but without batteries, it can be hand carried and deployed by a single operator. In its stowed position, the robot can be quickly loaded into the trunk of a squad car and transported to site. Once deployed, the PackBotEOD can traverse narrow, difficult hard-to access-terrain at burst speed up to 9,5 km/hr. The robot can quickly penetrate inaccessible and dangerous areas. PackBotEOD is equipped with tracked QuickFlip dual rotating flippers that allow the robot to easily climb stairs, maneuver over rocks and rubble and navigate narrow, twisting passages. The robot's flexible ToughTrac™ polymer tracks can eject debris and maneuver over any surface – from tiled floor to snow and mud – with “human-like” dexterity. This all-weather, all-terrain robot goes virtually anywhere.

The chassis offers eight separate payload ports with Ethernet, USB, power and 2x Video channels and allows adaptation of additional payloads like chemical-bio sensors, mine-detectors, ground penetrating radar (GPR), extra power and many more

The Omni reach manipulator arm can access targets other robots cannot. And with its powerful, low profile gripper, the robot can perform a wide array of manipulation tasks.

Operation is carried out via a 15“ „Rocky“ MILSpec Laptop (AMREL) in conjunction with a hand controller. Modelled after video-game style controllers, these make the ROV easier to use, resulting in less training time and faster operation in the field. Pre-set poses, available at a touch of a button enable fast positioning of the ROV. Plus, the robot operator always sees the operating environment and knows the position of the robot thanks to on-screen views of real-time video from multiple high resolution cameras and 3-D graphics showing the robot's orientation



AMREL (Rocky) -Laptop



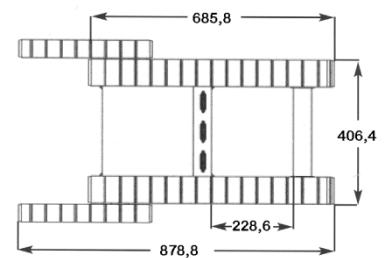
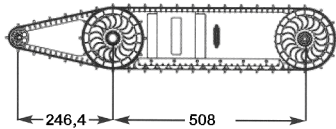
PackBot®510 EOD



Technical data

Chassis	
Height	407 mm, arm in stowed position 221 mm, with arm fully extended
Width	406 mm Flippers off 508 mm Flippers on
Length	686 mm Flippers stowed 879 mm Flippers extended
Weight	24 kg, fully loaded
Max. Shock	400 "g"
Environmental	All-weather
Speed	2,2 m/s slow speed mode 3,7 m/s high speed mode
Flipper Velocity	100 °/s
Microelectronics, Sensors	Mobile Pentium® PC 256 MB DSRAM, Compact Flash Storage PCMCIA-slots, overheat protection, inclinometer, compass
Total Capacity	Multiple payloads up to 21+ kg
Battery endurance	2 – 12 hours, depending on mission Up to 10 km + travel
Communication	RF: Digital 2,4 GHz 500 m up to 1000 m LOS with opt. longe range antenna and optional intelligent fiber Spooler with 200 m cable, automatic payout and rewind
Manipulator system	
Reach	2.082 mm horizontal
Capacity	5 kgs at full extension 6,8 kgs at 0,5 m distance
Weapons/tools	1 firing circuit/supports multiple disruptors
Degrees of Freedom	Shoulder rotation: Continuously
8 independent	Shoulder pivot: 160° Elbow 1: 340° Elbow 2: 340° Ripper rotation: Continuously Head rotation: Continuously Head tilt: 290°
Video-System:4 low-light CCD color cameras	
Surveillance camera	Mounted on head with cont. pan/270° tilt , Color, zoom 300x, Auto focus, image stabilize, low light capabilities
Drive camera	Mounted on chassis, wide-angle, with multiple positions, allowing forward, rear upwards views. It can also view arm positions.
Arm cameras (2)	Color cameras provide view of head from 2 nd elbow, allowing maneuvering in tight situations.
Lights	Variable intensity LED provide both white and IR LED arrays for illumination in all ambient light conditions

OCU	
Laptop (MIL)	AMREL "Rocky"
Dimensions	351 mm x 116 mm x 78mm (W x L x H)
Weight	Approx. 6 kgs
Environment	All weather
Screen	15,1" XGA, anti reflective TTF LCD
Input devices	Keyboard and two hand controller
Portabilität	Pouch with carrying handle
Software	
	Glue, Aware, Aware 2,0 Multi image display 3D-active model of vehicle Gauge display of batteries and fiber Image-capture capability to USB Aux. USB, Ethernet, VGA 2-way audio radio communication Power-saving sleep mode Multi speed ranges Multiple pre-set manipulator positions



Remark:

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Specifications are subject to change without notice!