# **iRobot**



The iRobot 310 SUGV is a man-portable robot with dexterous manipulator and wearable controller for dismounted mobile operations. A smaller and lighter version of the combat-proven iRobot® PackBot®, 310 SUGV enters areas that are inaccessible or too dangerous for people, providing state-of-the-art technology for infantry troops, combat engineers, mobile EOD technicians and other personnel. 310 SUGV gathers situational awareness in dangerous conditions while keeping warfighters and public safety professionals out of harm's way.

Perform dismounted mobile operations...

Operate in a variety of conditions and weather...

Keep personnel and civilians at safe stand-off distances...



# The robot for dismounted mobile operations

## **Why 310 SUGV?**

- Perform dismounted operations like surveillance/ reconnaissance, EOD and route clearance missions
- Dexterous manipulation of objects
- Wearable controller and heads-up display for mobile operations
- Easily climbs stairs and overcomes obstacles

- Rugged design operates in all-weather conditions
- Lightweight and compact, fits in MOLLE pack
- Game-style hand controller reduces training time
- Modular design accommodates optional payloads and sensors





• Zoom: 40x (10x optical / 4x digital) • Resolution: 640 x 480

#### **310 SUGV**

Adaptable and expandable, 310 SUGV accommodates a wide range of payloads and sensors, including a dexterous manipulator. 310 SUGV features a wearable controller, heads-up display and game-style hand controller, making the robot ideal for dismounted mobile operations.

#### **Robot Specifications**

#### **Robot Dimensions**

Height	9" (22.9 cm) with Manipulator in stowed position     35.3" (89.7 cm) with Manipulator fully extended
Width	• 13.7" (34.8 cm) with flippers off • 17.2" (43.7 cm) with flippers on
Length	27.9" (70.8 cm) with flippers stowed     30" (76.1 cm) with flippers extended
Weight	• 29 lbs (13.2 kg) with no payloads
Mobility	
Speed	• 6.2 mph (10 km/h)
Slopes	30% (17 deg) Lateral     84% (40 deg) climb (friction dependent)
Vertical Obstacles	• 12" (30.5 cm)
Stair Climbing	• Rise 8" (20.3 cm) • Run 10" (25.4 cm)
Water Traverse	• 6" (15.2 cm)
Communications	
Wireless Range (LOS)	• 3280' (1000 m)
Radio Frequency	• 2.4 GHz / 4.9 GHz COTS
	<ul> <li>Modular radio interface accommodates future radio upgrades</li> </ul>
Cameras and Illumination	

Chassis Camera • Wide angle, fixed focus used for

driving and stair climbing • Resolution: 640 x 480 • Field of View: 107° Responds to IR Illumination

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	FOV: 48° to 5°     Auto focus / auto iris     Low light capability (1.5 lux)     Additional controls: shutter, focus
Drive Camera	Same specs as Chassis Camera
Illumination	
Design and Construction	
Size:	• Fits within one standard MOLLE or ALICE pack
Power Source	2 BB-2557/U Batteries — 1.5 hours of operatio     Tool-less battery installation / removal
	Interface for manipulator and fiber optic spoole
	Easy field maintenance LRU strategy
Basic Wearable	<ul> <li>Weight: 6 lbs (2.7 kg)</li> <li>Display: Tac-Eye™ heads-up glasses</li> <li>Resolution: SVGA (852 x 600)</li> <li>Ruggedized</li> <li>Sunlight readable</li> <li>Controller: game-style hand controller</li> </ul>
Manipulator	
Extension	• 24" (61 cm)
Lifting Capacity	• 7 lbs (3.2 kg) fully extended • 15 lbs (6.8 kg) close-in
	Turret: 360° continuous rotation
Gripper	
Controller Options	
	Ruggedized, environmentally sealed, MIL STD hand controller

Color Zoom Camera 

Sony IXII

Heads-Down Rugged Controller • 5.6" LCD display screen

Resolution: WXGA (1280 x 800)

· Sunlight readable

· Joystick-style control

#### **Battery Options**

BB-2590/U Batteries • greater than 6 hours of operation on 2 batteries

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