

The **INERT R-BOT** is an unmanned ground vehicle (“UGV”). It can be used for a broad range of applications that require remote inspection and/or manipulation.

- Reconnaissance
- Scout areas for potential threats or hazards such as booby-traps, opposing personnel, ground sign awareness, etc. using 4 onboard cameras
- Open doors with the gripper
- Built-in wireless capabilities for up to 400 meters (~1,300 feet)
- Manipulation:
 - Lift objects up to 44 lbs.
 - Drag objects over 100 lbs.
 - The gripper has a 6” span and has a 360 degree continuous rotation

Weight (in drive configuration with batteries): 65Kg
 Runtime: Up to 25 hrs
 Range: 400m
 Cameras: 3x static, 1x Pan/Tilt
 Manipulator Reach: 1300mm vertical & 590mm horizontal
 Manipulator Lift: 20 kg close & 9kg in max extension
 Gripper Span: 150mm
 Gripper Rotation: 360° (continuous rotation)
 Speed: 1.7 km/h
 Towing/ Pull Force: 25 kgf
 Agility/ Turn Radius: Skid steer / zero radius turn
 Slope Traversal: 45°
 Vertical Obstacle: 120mm tall
 Ground Clearance: 106mm
 Dimensions: 870mm x 636mm x 1017mm
 Communications: TCP/IP protocol
 Controller: Xbox Controller



The R-BOT is easy to set up in under 10 minutes, and is controlled by an off-the-shelf Xbox controller. The controller can be plugged directly into the R-BOT or via a laptop that displays the UGV's 4 onboard camera

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