



510 PackBot® CBRNE The man-transportable, multi-mission robot

Modular, adaptable and expandable, the 510 PackBot can perform CBRNE/ HazMat detection and mapping, bomb disposal, surveillance and reconnaissance. Quickly configured based on mission needs, PackBot climbs and descends stairs and navigates narrow passages with sure footed efficiency. PackBot relays real-time video, audio, and sensor data while the operator remains at a safer stand-off distance. More than 4,000 PackBot robots have been delivered worldwide.

The battle-tested PackBot, deployable in less than two minutes, can reach speeds of up to 5.8 mph, overcome obstacles and debris and support numerous disruptors and a broad array of sensors that deliver real-time intelligence. PackBot climbs slopes and stairs up to 45 degrees, is submersible in three feet of water and is operational in all-weather environments.



Even with sensors mounted on the arm...

- The manipulator maintains the same lift capacity
- The manipulator still features precision movements

Weight	31.6 lb (14.3 kg) mobility platform (no batteries) 21.1 lb (9.6 kg) manipulator
Run time	Up to 4 hrs with two (2) BB-2590 batteries Up to 8 hrs with four (4) BB-2590 batteries
Mobility	
Speed	Up to 5.8 mph (9.3 km/h)
Agility	Zero radius turn
Slopes	Up to 43° (ascend, descend) Up to 40° Lateral
Stair Climbing	40° [rise 8.5" (21.6 cm), run 10" (25.4 cm)]
Manipulator Lift	11 lb (5 kg) at full extension [(73.5" (187 cm)) 44 lb (20 kg) close-in
Awareness	Four (4) cameras Two-way audio
Compatible	Works as radio repeater for all Endeavor Robotics robots
Expansion	Six (6) payload ports 22 disruptors supported 10 fully integrated HazMat/CBRNE sensors 40+ Accessories
Controller	Multiple controller options available, including the uPoint® Multi-Robot Control System

uPoint® Multi-Robot Control System – Tablet Controller

The system is made up of an easy-to-use, Android™-based, rugged, tablet controller and a world-class robot radio network. Together, they allow you to communicate further downrange – driving and manipulating across Endeavor Robotics' family of robots.

Video Recording

Capture evidence in tablet gallery

Switch between multiple robots

Easily control multiple robots using intuitive menu

Mesh Radio

Displays radio strength while you maintain communications in complex environments

3D robot model

Helps with visualizing even when your robot is non-line-of sight

Quick access to robot payloads and maps

Hazmat sensor readings, thermal camera, and more. Maps to localize your GPS location (Requires Accessories)

Two-way audio

Listen and talk through the robot

Virtual Joystick

Touch and drag anywhere on the image to drive the robot

Predictive Drive Lines

Help guide you through tight spots

Preloaded Poses

And the ability to create your own poses to rapidly configure your robot

Variable Speed

Slider bar easily adjusts chassis and arm speed



CBRNE Sensors

(Chemical, Biological, Radiological, Nuclear and high-yield Explosives)

The 510 PackBot robotic system enables sensing and visual/audible detection of toxic industrial materials, chemical warfare agents, radiation or explosive hazards.

The system accommodates multiple sensors that can be configured to meet the mission needs.



Smiths Detection LCD 3.3

- Chemical Warfare Agent (CWA) identifier and Toxic Industrial Chemical (TIC) detector



RAE Systems MultiRAE Pro

- Multi-threat monitor for VOC, O2, LEL, H2S, and CO detection



Canberra Radiac Sensors AN/UDR - 13, 14, 15

- Gamma and neutron radiation detectors

Canberra UltraRadiac-Plus (gamma only) RGU-100

- Gamma and neutron radiation detectors



Thermo Scientific RadEye GN+

- Gamma and neutron radiation detector/pager

Accessories



LWIR Thermal Camera

- Close-to-medium range detection and identification in fog, smoke, low- and no-light.
- Additional software required.



Universal SmartSpool™ Fiber Optic Spooler

- 721' (220 m) of fiber and spooler with automatic payout and rewind to maintain control and communications in areas where RF is denied.



PAN Disrupter Mount

- Allows easy installation of the PAN Disrupter on the robot



Block Accessory Tool System (BATS)

- Includes 10 end effectors, 2 extensions, an adapter, and a block that fits within the robot's grippers