

The User Assist Package (UAP) adds semi-autonomous capabilities to the iRobot® 510 PackBot®.

The UAP makes it faster and easier to use the robot and safer for the operator.

Better situational awareness

The UAP speeds up operations and reduces workload for the operator, letting them focus on successful completion of the mission.

Less risk

The UAP reduces risk for the operator by minimizing the need to retrieve a robot that has been flipped over or lost communications downrange.



The iRobot® 510 PackBot® with User Assist Package (UAP) includes retro-traverse, self-righting and heading hold, semi-autonomous capabilities that improve mission success.

What's included

- The UAP payload and mounting kit
- A 640-GB AMREL® hard drive
- iRobot® Aware® 2 robot intelligence software (Version 5), with UAP software
- A UAP accessory cable
- A dual accessory port payload adaptor

iRobot Corporation
8 Crosby Drive
Bedford, MA 01730
USA
www.irobot.com

Sales Contact
888.776.2687
(Toll free in USA)
+(1) 781.430.3090
(International customers)
sales@irobot.com

Media Contact
781.430.3182
publicrelations@irobot.com

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iRobot®

Robot capabilities

The UAP adds critical semi-autonomous capabilities to PackBot:

Retro-traverse

If communications are disrupted, the robot automatically retraces its approach path to restore them.

Self-righting

If the robot is flipped over, it automatically rights itself and continues the mission.

Heading hold

The robot maintains a constant heading set by the operator, automatically adjusting for bumps, debris and other obstacles.

OCU capabilities

The UAP includes operational improvements for the Operator Control Unit (OCU):

GPS mapping

The OCU displays a satellite image of the robot's location and travel path, including stand-off distance, current GPS position and points of interest indicated by the robot operator.

Custom poses

The operator can create, name and save manipulator arm poses in the OCU and use them on subsequent missions at the touch of a button.

Gripper force meter

An OCU icon shows the relative gripping force, helping the operator determine that the robot has successfully grasped an object of interest.

Precise positioning

The operator can move the robot's gripper and camera head in a smooth, natural and continuous motion.

Keyboard shortcuts

The operator has the option to control the robot using keyboard shortcuts on the OCU, instead of the hand controller, for faster operations.

Image capture

The operator can save high resolution images from video feeds and screenshots on the OCU for post-mission analysis.