

iRobot® Warrior™ X700

A MULTI-MISSION, MODULAR ROBOT WITH SUPERIOR POWER



The iRobot Warrior is a powerful and rugged robot that can carry greater than 150 lb payloads, travel through rough terrain and climb stairs with heavy loads. The robot's design offers an advanced digital architecture and an extremely sturdy platform to support the weight of heavy payloads, such as firearms and hoses. The Warrior robot will be

critical in a variety of missions, including explosive ordnance disposal (EOD), reconnaissance, and firefighting. Funded by the Technical Support Working Group (TSWG), Warrior is currently under development and is expected to become available for sale in early 2008.

FLEX THE ROBOT'S MUSCLES

The Warrior is highly configurable to meet the demands of real-world situations such as:

- Explosive Ordnance Disposal
- VBIED
- SWAT
- Reconnaissance
- HazMat

- CBRN
- Battlefield Casualty Extraction
- Physical Security
- Firefighting
- Surveillance
- Target Acquisition
- Weaponized Missions

iRobot Warrior Chassis Capabilities and Specifications

Length

40 inches

Width

29 - 32.5 inches
(depending on configuration)

Height

18 inches (stowed)

Weight

- Approximately 250 lbs.
- Total weight of platform and mission payloads: 400 lbs. gross vehicle weight

Environmental

Operates in all-weather conditions

Software

First robot designed specifically for AWARE 2.0

Navigation

Leverages odometry waypoint navigation via built-in GPS model
Supports assisted tele-operated behavior:

- Obstacle avoidance sensors
- Intelligent CG shifting and flipper control
- Auto-track for stair climbing and descending with roll angle of zero

Battery Endurance

- 9-Pack Singars Radio Lithium Ion Batteries
- 1.45 - 16 hours depending on mission profile.
- 1.0 minute change-out for batteries

Hardened Electronics

MIL-STD-461
MIL-STD-464

Communications

Modular approach allows use of any ethernet radio

Deployment

Rapidly deployable from non-specialized vehicle

Mobility

Dual track system for enhanced mobility

Maintenance

- Fast pit-stop like plug and play concept using 3-tiered maintenance concept:
- Field Maintenance
 - Sustainment Maintenance
 - Depot Maintenance

About iRobot

iRobot Corp. specializes in behavior-based robots that help people complete tasks with better results. To date, more than 1,000 iRobot PackBot® robots have been delivered worldwide, performing thousands of missions in Iraq and Afghanistan.

These robots have also been credited with saving the lives of many men and women of the U.S. Armed Forces around the world. Now iRobot brings you the next generation robot, the iRobot Warrior.

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