iRobot Ava™ is a breakthrough mobile robotics platform developed to help robot designers, application developers and market innovation specialists expedite the pursuit of practical, affordable mobile robotic solutions.

**OVERVIEW**

- Practical
- Easy-to-use
- Designed for the real world

**PERFORMANCE ADVANTAGE**

- **Practical**
  Autonomous navigation for independent, proactive point-to-point navigation.

- **Functional**
  The right balance of features and robustness integrated in meaningful and productive ways.

- **Affordable**
  A highly accessible development platform for business or consumer applications.

- **Robust**
  Comprehensive sensor arrays (laser, sonar, and 2D/3D-imaging) providing complete autonomous navigation.

- **Easy-To-Use**
  Intuitive and easy to use controls for natural, non-intrusive user interactions.

- **Intuitive**
  Customizable touch, voice, and gestural controls create richer interactions.

- **Useful**
  Person-following, height adjustment and other flexible, autonomous behaviors simplify use.

- **Confident**
  Deliberate navigation and predictable behaviors inspire trust and confidence.

- **Designed For The Real World**
  Real time situational awareness for fast reactions to the complex world we live in.

- **Safe**
  Detects and avoids people, objects and hazards such as stairs.

- **Dynamic**
  Responds to our human world with smooth yet quick omni-directional movement.

- **Adaptive**
  Identifies and reacts to changing environments in real time.
Potential Applications

Collaborative Work

Caregiver Support

Learning

Homecare

Mobile Kiosk

Security

Product Expert Chat

Factory Inspection
INTEGRATED PLATFORM VISION

Aware® 2 Robot Intelligence Software
Software Developers Kit
Remote Access Enabled—with easy-to-use API
Head Agnostic Design—for use with diverse pad devices
Application Accessory Support
WiFi/3G/4G Cellular Connectivity
Advanced Sensor Suite
  Scanning Laser
  Ultrasonic
  2D/3D-Imaging
  Contact Bumpers
  Cliff Sensors
Touch Sensitive “Skins”—for local control
Integration with future pad-based sensors
(e.g. NFC, Barcode scanners, cameras)
Voice-Based Interaction
  Speech Recognition
  Text-to-speech
Autonomous Recharging
Omni-Directional Drive
Adjustable Height Torso
Manipulation
**Ava™ VERSATILE PLATFORM**

The iRobot Ava™ development platform offers flexibility that supports development of a wide range of applications and accessories.

*Head Agnostic Design*—for local or remote use (displays, tablets, pads, phones, etc.)

*Connectivity Options* (WiFi, Bluetooth, RF, IR, etc.)

*User Interface Options* (touch, voice, gesture, person-following, devices, etc.)

*On-Board Accessories* (payload, videocon, sensors, actuators, etc.)

*Software Application Flexibility* (open APIs using HTTP, Aware® 2 software, etc.)

---

**Ava™ APP DEVELOPMENT AND PARTNERSHIP OPPORTUNITIES**

**App Development**

*Software Innovation*

Ava is an app ready robot. Imagine writing apps for Ava that run on a tablet connected to the robot. All of the robot specific tasks, such as mapping, planning, navigation, obstacle detection and avoidance and user interaction will be made easy. App developers can focus on what they do best—software innovation. Imagine what you could do.

**Product Development**

*Hardware Innovation*

For design teams developing user needs-based products and accessories where Ava’s autonomous mobility would provide a performance advantage.

**Market Development**

*Business Innovation*

For management teams conceiving next-generation product or service offerings for new and emerging markets.

---

**ABOUT**

iRobot designs and builds robots that make a difference.

iRobot was founded in 1990 when Massachusetts Institute of Technology roboticists Colin Angle and Helen Greiner teamed up with their professor Dr. Rodney Brooks with the vision of making practical robots a reality.

In 2010, iRobot generated more than $400 million in revenue and employed more than 500 of the robot industry’s top professionals, including mechanical, electrical and software engineers and related support staff. The company has shipped over six million home cleaning robots and 4,000 unmanned vehicles to date. iRobot stock trades on the NASDAQ stock market under the ticker symbol IRBT.

The iRobot corporate headquarters is located in Bedford, Massachusetts.

---

**CONTACT**

Ava@iRobot.com  
www.iRobot.com/Ava

© 2011 iRobot Corporation. All rights reserved. iRobot, Aware, Roomba, Scooba and PackBot are registered trademarks of iRobot Corporation. Ava is a trademark of iRobot Corporation, iRobot Corporation, 8 Crosby Drive, Bedford, MA 01730.