



iAdapt™ Responsive Cleaning Technology is an advanced system of software and sensors that actively responds to the environment to make smart cleaning decisions in the real world. It is the most flexible and effective robotic technology that adapts to different configurations of room shape, size and furnishing. iAdapt technology is intuitive and exploratory, enabling ultimate coverage in furnished homes.

iAdapt technology is proof that the most thorough cleaning results from the most intuitive and flexible technology.

iAdapt technology is the most actively intuitive robotic technology, monitoring its sensory input more than 60 times per second and responding in real time with dozens of behaviors. Explicit behaviors ensure effective cleaning—light-touch bumper, wall follow, escape behavior, clutter navigation and Dirt Detect.

Because iAdapt technology is sensory-based and not map-oriented, Roomba® is more exploratory in its methods and thorough in its result. Robotic floor cleaners that map out a path at the outset and then work their way through that map are vulnerable to perceived barriers, which results in systematic neglect. iRobot's sensory approach more accurately discerns solid barriers from soft ones, like couch skirts, comforters and curtains. As a result, we clean under beds and couches.

Behavior Highlights:

- **Light-touch bumper** - Allows Roomba to lightly nudge any obstacle that it senses and differentiate between hard and soft barriers. Therefore, the light touch bumper enables the Roomba to clean under couches with skirts and behind curtains.
- **Wall follow** - This is an adaptive robotic behavior that allows Roomba to move along a wall in a smart and smooth fashion. Therefore it aids cleaning along wall edges.
- **Escape behavior** - This adaptive intelligence software enhances Roomba's ability to escape from tight spaces like chairs, bar stools and coffee tables so that it can clean autonomously everywhere without getting stuck.
- **Clutter navigation** - This exploratory behavior helps Roomba maneuver around a cluttered room or a heavily furnished room. This means little room preparation is needed before Roomba starts cleaning.
- **Dirt Detect™** - Dirt Detect is a smart cleaning behavior that is patented by iRobot. This brilliant technology helps Roomba detect dirtier areas and clean better. Just like humans clean longer in dirtier areas, Roomba ensures deeper, concentrated cleaning wherever it detects dirt.