Adept MobileRobots for Research
Get Your Research Projects Moving
Research Robots

Adept MobileRobots has designed a wide range of robots to jump-start a variety of research projects. Most platform systems include many accessory options for integration and software, such as the Pioneer software development kit. As seen through all of our products, Adept MobileRobots is fully committed to producing high quality, reliable robot platforms for research and educational purposes.

Research Software Packages for Land Robots

Adept MobileRobots provides a full range of software tools to support their robot base platforms and accessories. The software packages are useful for many levels of development, ranging from basic communication with the robot to navigation and localization packages.

**PIONEER SDK for Land Robots**

- **ARIA Core Library**  Open source core SDK for robots, devices, networking, and many features. Included with all land robot bases.
- **Intelligent Robot Localization and Navigation**  Libraries for implementing reliable, high-quality, highly-configurable, and intelligent navigation and localization capabilities are provided with every land robot platform.
- **MobileSim Simulator**  Open source multi-robot simulator. Included with all land robots.
- **MobileEyes**  Graphical user interface client for remote operation and monitoring of the robot. Included with all land robots.
- **Mapper3Basic**  Tool for creating and editing map files for use with ARIA, MobileSim, and navigation software. Included with all land robots.

**SPEECH Recognition and Synthesis Libraries**

- User-friendly C++ development libraries for speech recognition (based on the open source Sphinx2 system) and for speech synthesis, or “text-to-speech” (based on the Cepstral synthesizer).

**ACTS Color Tracking System**

- Software application to read images from camera and track the position and sizes of multiple color regions (information can be incorporated into your own software via ARIA).

**RESEARCH mOGS**

- Library for outdoor land localization, navigation, and path planning using DGPS.
Intelligent Robotic Platforms for all your needs

Adept MobileRobots offers intelligent robotic bases for research projects based in the air, land, or sea. All platform systems offer researchers a unique set of advantages that can help jump-start research projects and keep them moving forward.

ADEPT MAVERIC IN THE AIR

The Adept Maveric is a base specifically designed for Adept by Prioria, a leader in mini UAVs (Unmanned Aerial Vehicles). The patented, flexible wing design of the Maveric can be rolled small enough to fit into a 6-inch diameter tube. The platform includes optional remote controls for additional sensing and intelligence. The Maveric allows all universities to afford a professional quality, reliable UAV.

ADEPT AQUA2 IN THE SEA

The Adept AQUA2 is an autonomous underwater vehicle (AUV) available only through Adept MobileRobots for studying 3D mapping, localization, navigation, gait, appendage design, and many other undersea and onshore projects. Unlike most autonomous undersea systems, the water-tight AQUA2 can carry objects and turn on a dime, all without requiring a patrol boat or special launch equipment. AQUA2 offers flipper and leg options for amphibious applications on land and under water.

ADEPT PLATFORMS ON LAND

Adept land platforms can help with land-based research projects regardless of payload, terrain, or obstacles. The Pioneer3-DX, PatrolBot, and PowerBot platforms integrate with a wide variety of manipulation and sensing accessories. AmigoBot, offering a lower-priced, closed system for classroom and collaboration applications.

The Adept Seekur and Seekur Jr weatherized platforms are ideal for a large outdoor terrain, heavy payloads, and long run-times. Pioneer 3-AT is a lower-cost, fair-weather outdoor platform. All three platforms are accessorized with DGPS, manipulation, stereovision, lasers, and other sensors.

Industrial Robot Packages for Education

With Adept’s Robots for Education packages, it is easier to bring real-world robotics into the university lab environment. Designed specifically for educational institutions, the various robotic bundles provide professors and students a quick start-up, economical, and flexible solution for laboratory work.

There are three Education Packages available, including the Adept Cobra™ i-Series SCARA with Embedded Controls, Adept Cobra s-Series SCARA Powered by Adept SmartController™, and the Adept Viper™ 6-Axis Powered by Adept SmartController. Included with every package is the Adept ACE™ software, T2 manual control pendant, and an Adept Training credit*.

*training credit applies to the Robot Basics and V+ Beginner’s Course
Research Accessories

Adept MobileRobots supplies a wide selection of integrated hardware and software accessories to support all of our sophisticated mobile platforms.

### MOBLERANGER STEREO VISION SYSTEM

![MOBLERANGER STEREO VISION SYSTEM](image1)

### CHARGING STATIONS

![CHARGING STATIONS](image2)

### INDOOR & OUTDOOR PAN/TILT/ZOOM VISION SYSTEMS

![INDOOR & OUTDOOR PAN/TILT/ZOOM VISION SYSTEMS](image3)

### MANIPULATORS

![MANIPULATORS](image4)

### INDOOR & OUTDOOR LASERS

![INDOOR & OUTDOOR LASERS](image5)

### TOUCHSCREEN

![TOUCHSCREEN](image6)

### DGPS

![DGPS](image7)

About Adept MobileRobots

The Adept MobileRobots group is a premier robot technology company dedicated to the design and manufacture of mobile robotic systems for universities and research. Since 1995 when MobileRobots (formerly ActivMedia Robotics) launched its first Pioneer robot, the group has grown to be a global leader in the design and manufacture of intelligent mobile bases. After being acquired by Adept Technology in 2010, the newly-formed Adept MobileRobots group provides robot platforms, autonomous mapping and navigation systems, and software for robot researchers and college classrooms worldwide.

Adept Headquarters

Adept Technology, Inc.
5960 Inglewood Drive
Pleasanton, CA 94588
USA
Tel: +1 925 245 3400
Fax: +1 925 960 0427
info@adept.com
www.adept.com

Adept MobileRobots

Adept MobileRobots
10 Columbia Drive
Amherst, NH 03031
USA
Tel: +1 603 881 7960
Fax: +1 603 881 3818
sales@mobilerobots.com
www.mobilerobots.com

Adept Europe

Adept Technology GmbH
Otto-Hahn-Str. 23
44227 Dortmund
Germany
Tel: +49 231 7589 40
Fax: +49 231 7589 450
info.de@adept.com
www.adept.de

Adept Asia

Adept Technology Intl Ltd
Block 5000 Ang Mo Kio Ave 5
#05-12 TechPlace II
Singapore 569870
Tel: +65 6755 2258
Fax: +65 6755 0598
asia@adept.com
www.adept.com