

Robotics and Autonomous Systems Lab Solutions



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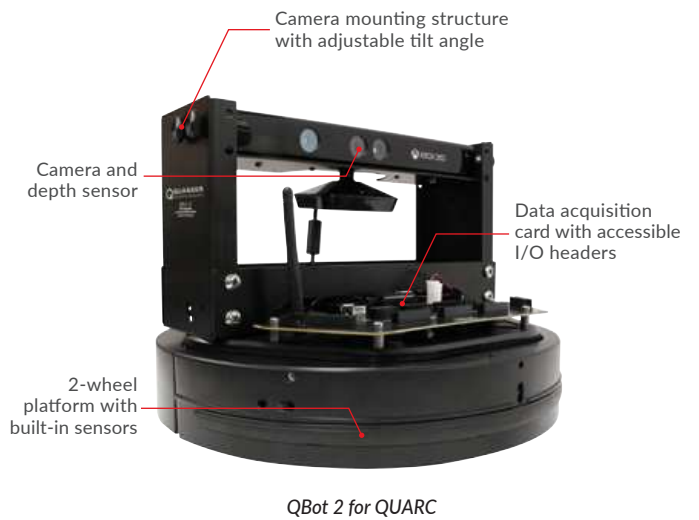
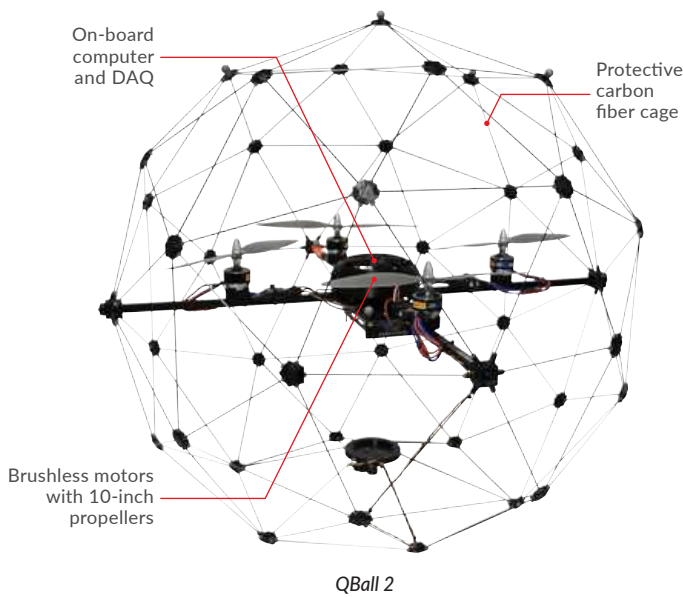
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Modern robotics spans a complex range of applications and platforms. Quanser is the only company taking a comprehensive approach to robotics tuned to the academic environment. Whether you are developing advanced algorithms as part of an ambitious research program, or you need state of the art technology and thinking to teach the next generation of robotics engineers, the Quanser product line has the perfect option for your needs. All Quanser robotics products offer the performance, quality, and flexible software architecture you need to accelerate application development and innovation.

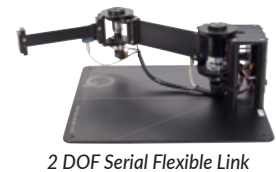
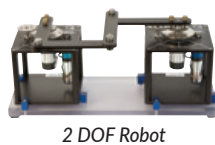
MOBILE ROBOTICS

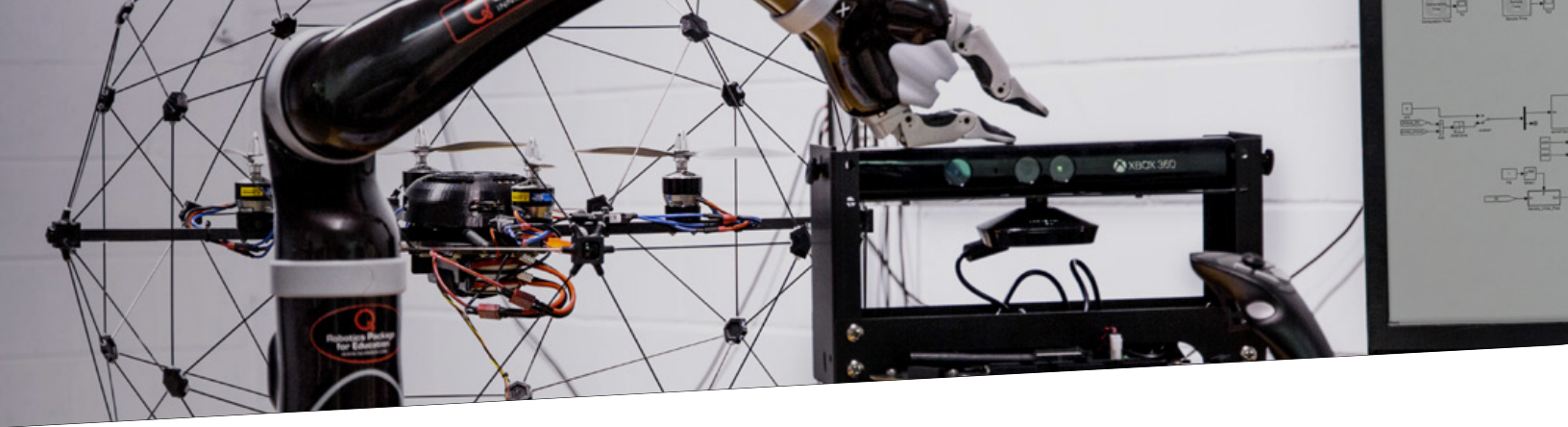
Whether you are engaged in ambitious research applications or teaching the next generation of engineering leaders, you need a robotics solutions optimized for the academic environment. Quanser's mobile robotics solutions offer a unique combination of advanced hardware with a powerful software framework powered by Quanser's renowned QUARC® built on the MATLAB®/Simulink® platform. Quanser offers options for ground and aerial vehicle applications featuring the latest processors and flexible support of sensors. Combine them together to create a UVS Lab that offers full localization and a comprehensive platform for multi-agent applications.



ROBOTIC CONTROL

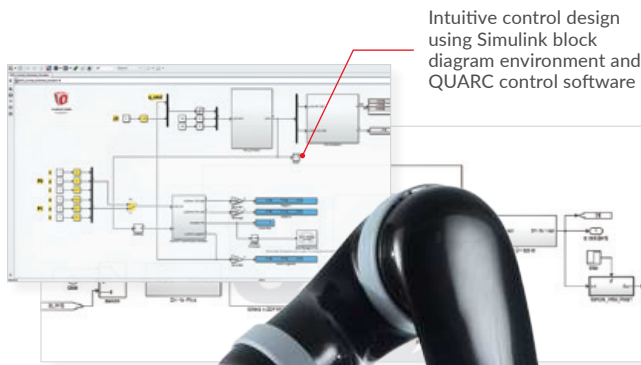
You can explore and validate key concepts specific to robotic control with these unique products, from introductory concepts in kinematics, dynamics and control, to advanced concepts including torsional compliance and flexible joints and links.





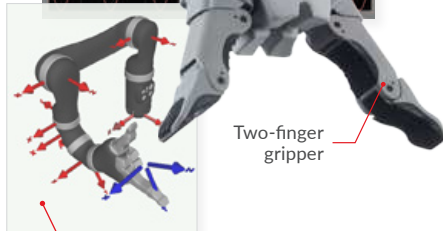
MANIPULATOR ROBOTICS

The study and exploration of serial link robots has been a core part of robotics education and research for many years. Initially driven by applications in manufacturing, it is now a key subsystem in more complex robotic applications. As a leader in providing open architecture robotic solutions, Quanser's 4 DOF and 6 DOF Joint Control Robots can meet your teaching and research needs.



Intuitive control design using Simulink block diagram environment and QUARC control software

Real-time sensor measurements



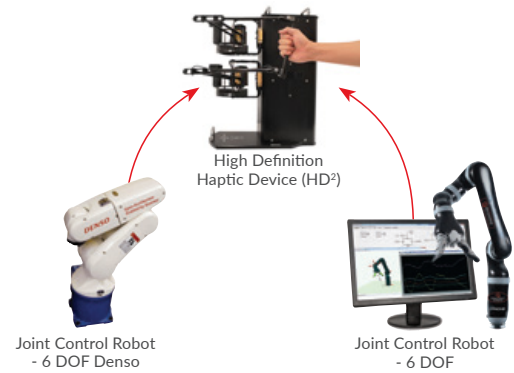
Two-finger gripper

Robotic manipulator simulation and 3D visualization

Joint Control Robot - 6 DOF

OPEN ARCHITECTURE RESEARCH ROBOTS

These unique research solutions let you deploy your own advanced control algorithms by providing access to the robot's sensors and actuators with QUARC communication blocksets.



Joint Control Robot - 6 DOF Denso

Joint Control Robot - 6 DOF

TELE-ROBOTICS AND HAPTICS

This solution is the platform of choice for advanced tele-robotic application with haptic feedback. The platform consists of an advanced robot manipulator equipped with a force/torque sensor mated to a high DOF haptic manipulator, and controlled with QUARC. Combined with visualization, This turn-key solution can be deployed quickly and is readily adaptable for a wide range of force-feedback research applications.

COST-EFFECTIVE WAY TO INTRODUCE ROBOTICS

The 6 DOF, open architecture, Omni™Bundle introduces intermediate and advanced control concepts and theories related to robotics and haptics in a safe, compact experiment.



Omni Bundle



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