

Aerospace Dynamics and Control Lab Solutions

The field of aerospace design and control has never been more immediately accessible and exciting as it is today. However, the recreational drones available to students lack the instrumentation and consistent dynamics required to learn the fundamentals of aerospace control and dynamics. The Quanser Aerospace Lab Solution line offers a full range of mechatronic systems for teaching topics from introductory controls all the way to collaborative unmanned vehicle systems. These solutions provide safe, proven, consistent, and accurately modeled systems to build foundations for developing the future of aerospace control systems.

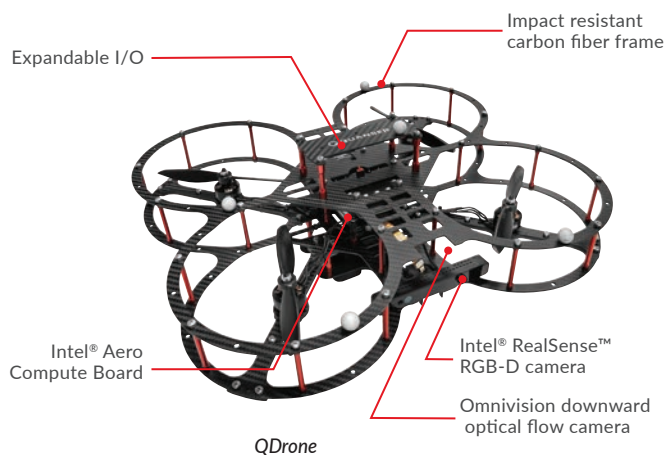
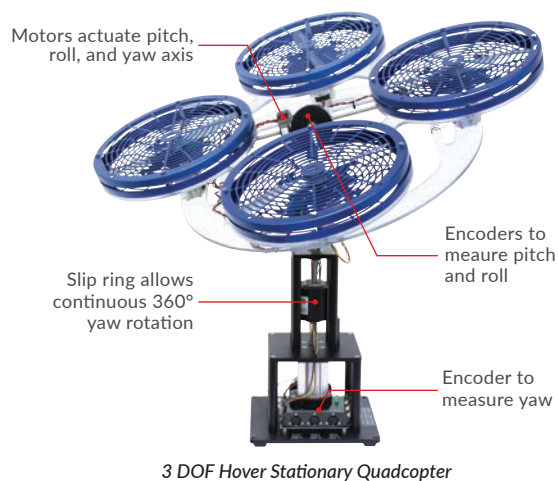
QUANSER AERO

The Quanser AERO is a unique platform that allows students to explore and gain insight into the dynamic complexities of flight applications. At its core, the Quanser AERO is a high-precision, plug-and-play physical system to study helicopter and quadcopter flight motion and control. Applications include 1 DOF attitude control, conventional 2 DOF helicopter flight, and even quadcopter dynamics and control. Reconfigurable elements let you quickly adapt the Quanser AERO to modern applications in mechatronic systems design.



QUADCOPTOR SYSTEMS

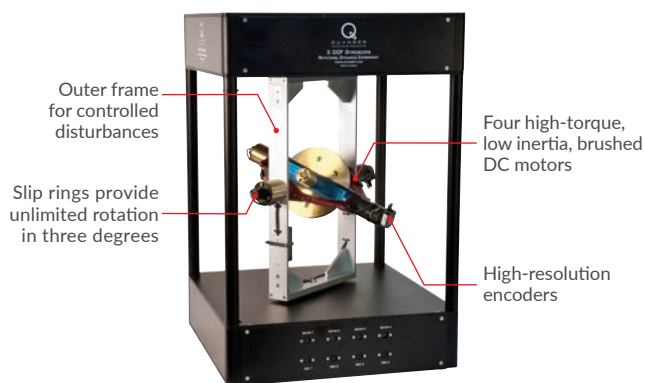
The quadcopter or quadrotor configuration is a principal configuration for modern autonomous flying vehicle design. Quanser's unique line of products take you from first principles to actual quadcopter flight.



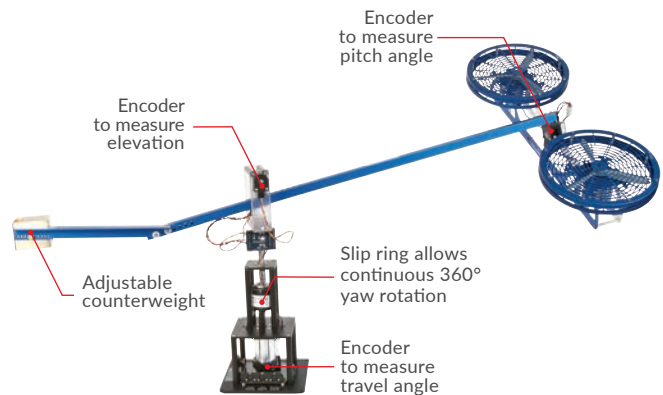


COMPREHENSIVE PRODUCT LINE FOR AEROSPACE DYNAMICS

Quanser offers the most complete range of products for hands-on labs for Aerospace Engineering departments. Quanser systems feature the precision and deterministic dynamics to support the theory. The robustness and flexible architecture of the products also make them ideal motion validation platforms for research.



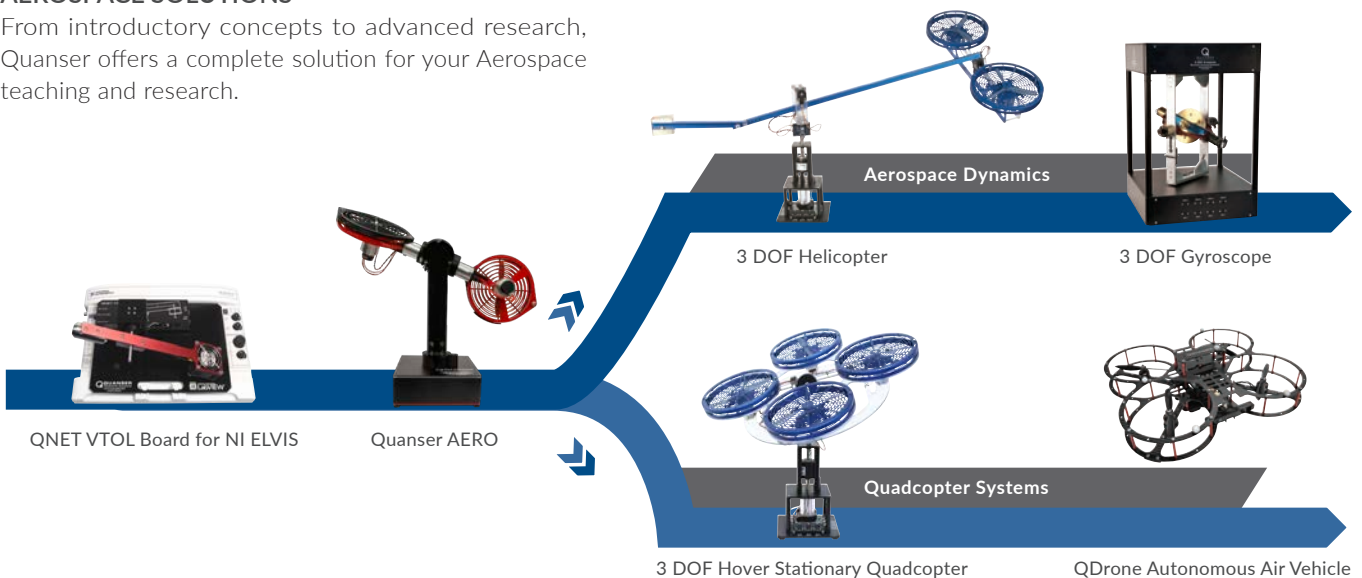
3 DOF Gyroscope



3 DOF Helicopter

AEROSPACE SOLUTIONS

From introductory concepts to advanced research, Quanser offers a complete solution for your Aerospace teaching and research.





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