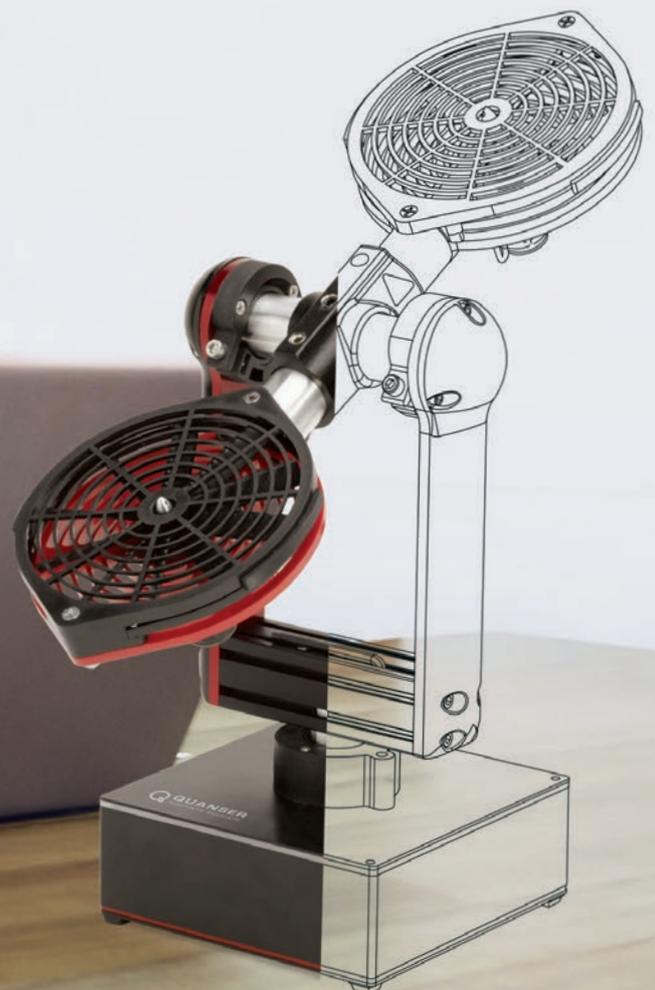




QUANSER
INNOVATE · EDUCATE

PRODUCTS AND LAB SOLUTIONS



ENGINEERING FUNDAMENTALS

NI ELVIS APPLICATION BOARDS



Controls Board



Energy Systems Board



Mechatronic Systems Board with NI ELVIS III



Mechatronic Sensors Board



Mechatronic Actuators Board

For information on boards compatible with NI ELVIS II, visit www.quanser.com

STRUCTURAL DYNAMICS & EARTHQUAKE ENGINEERING



Shake Table I-40

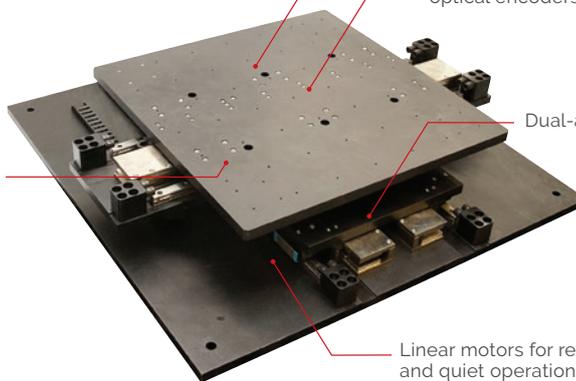
Easy integration of user-built structures, third-party sensors, and actuators

Precise and accurate positioning using high-resolution optical encoders



Active Mass Damper

Limit switches for improved safety



Dual-axis operation

Linear motors for reliable and quiet operation



Shake Table II

XY Shake Table III

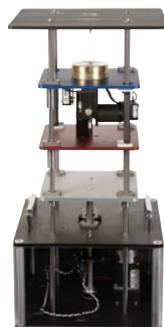


Hexapod

INDUSTRIAL APPLICATIONS



3 DOF Crane



Active Suspension



Coupled Tanks



Magnetic Levitation

Products pictured are not to scale. Additional workstation components may be required. For full product information and system configurations, visit www.quanser.com

AEROSPACE CONTROL & DYNAMICS



3 DOF Hover Stationary Quadcopter



Pitch encoder
DC motor with encoder and tachometer
IMU with accelerometer and gyroscope
Continuous 360° yaw rotation
Interchangeable, adjustable propeller assembly
Yaw encoder
Available with USB, Embedded or NI myRIO interfacing panel
User-controllable tri-color LED

Quanser AERO



3 DOF Gyroscope



3 DOF Helicopter

MOTION CONTROL

ROTARY PLATFORM



Adjustable stainless steel gears
High resolution optical encoder
High quality DC servomotor with tachometer
Inertia disk and bar modules

Rotary Servo Base Unit



Rotary Flexible Joint



Rotary Flexible Link



Ball and Beam



Gyro/Stable Platform



Rotary Inverted Pendulum



Rotary Double Inverted Pendulum



2 DOF Robot



2 DOF Inverted Pendulum



Multi-DOF Torsion



2 DOF Ball Balancer



Encoder angle sensed inverted pendulum

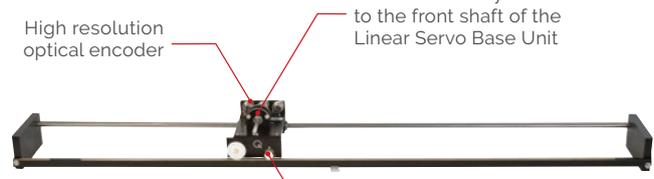
Available with USB, Embedded or NI myRIO interfacing panel



Inertia disk

QUBE-Servo 2

LINEAR PLATFORM



High resolution optical encoder
Pendulum easily attaches to the front shaft of the Linear Servo Base Unit
High quality DC motor and gearbox

Linear Servo Base Unit*



Linear Flexible Joint



Seesaw

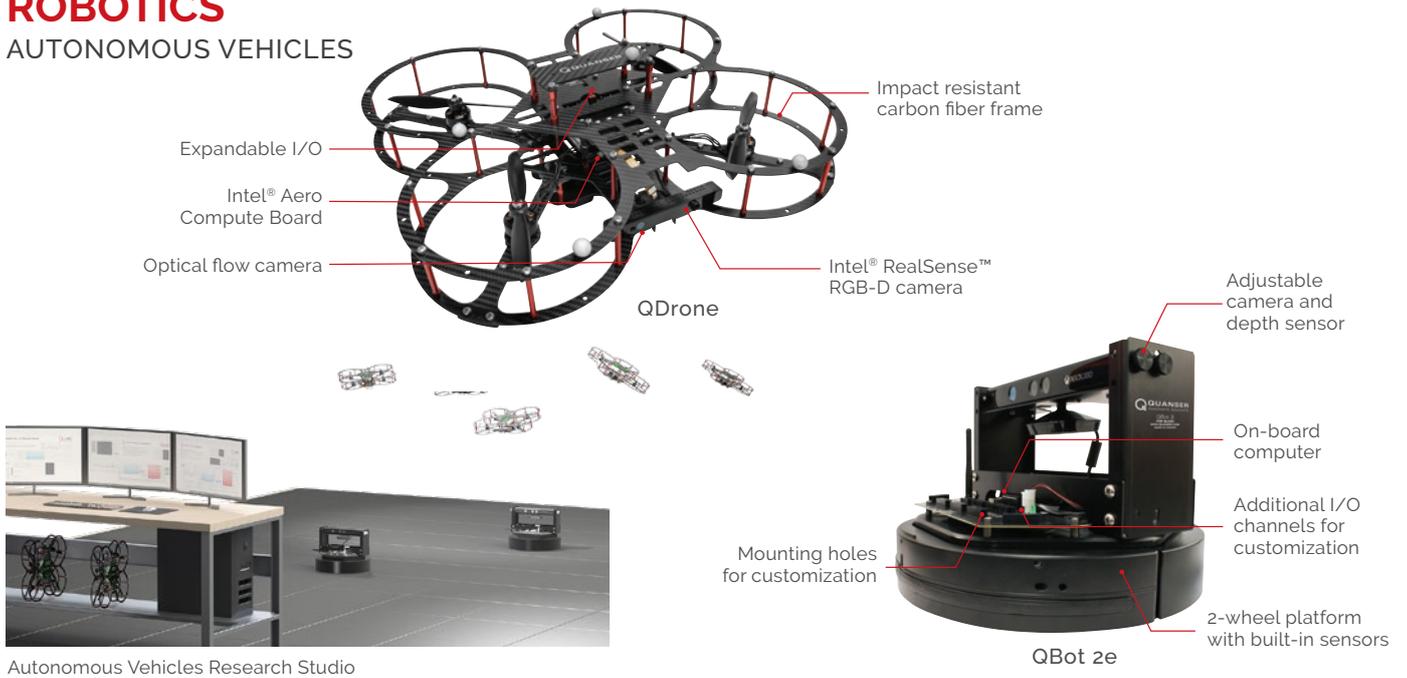


High Fidelity Linear Cart with Triple Inverted Pendulum

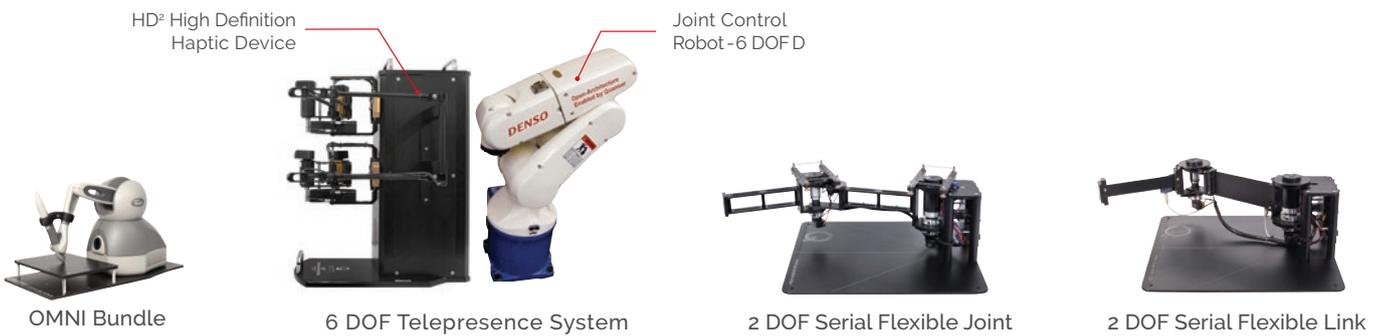
*For additional linear modules, full product information and system configurations, visit www.quanser.com

ROBOTICS

AUTONOMOUS VEHICLES



MANIPULATOR ROBOTICS & HAPTICS

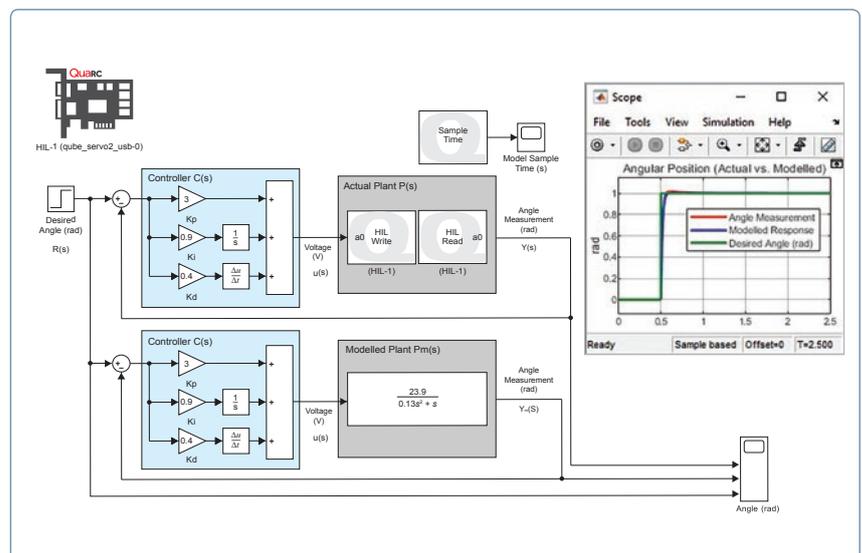


SOFTWARE

QUARC™ IS THE MOST EFFICIENT WAY TO DESIGN, DEVELOP, DEPLOY AND VALIDATE REAL-TIME APPLICATIONS ON HARDWARE USING SIMULINK®

- QUARC HOST**
Simulink Development Environment (SDE)
- > Open Architecture
 - > Graphical Development Environment
 - > Rapid Control Prototyping
 - > Software Interfacing

- QUARC TARGETS**
- > Multiple/Concurrent/Remote
 - > Real-Time Performance
 - > Real-Time Communication
 - > Hardware Integration
 - > Robotics and Autonomous Applications





Answering the most challenging academic questions with innovative technology and methods

Quanser is the global leader in lab solutions and products that have transformed the way educators teach the theory, application, and implementation of controls, robotics, and mechatronics.

Over 2,500 universities and institutions rely on Quanser to help them attract, educate and graduate a new generation of engineering leaders. They trust Quanser to strengthen their reputation and expand their presence on the global academic scene.

Pioneers of contemporary technology trends

The Quanser approach to innovation, collaboration, and education has produced a number of notable technology firsts:

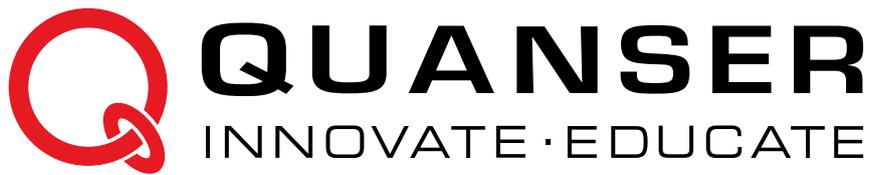
- > Efficient validation platforms for control research
- > High-performance real-time control on standard computers
- > Research-grade quadcopter preceding the drone revolution by a decade
- > Mobile e-learning platform optimized for STEM content

Architects of the transformational lab

Quanser is driven to create more enriching and advanced research and learning experiences. We believe our concept of Transformational Labs creates a collaborative, multi-disciplinary, and progressive environment. One that faithfully brings to life math and engineering theory, and is fully consistent with modern educational methods. Transformational Labs are built on several principles including:

- > Sophisticated technological platforms capable of realistic, complex, even ambitious applications, while fostering innovative pedagogy
- > Immersive, engaging, challenging experiences that motivate vigorous research and study
- > Turnkey, flexible, and low-maintenance systems, that are well-supported and affordable

Explore the full range of tools and resources to enhance your teaching and research lab at www.quanser.com



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