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

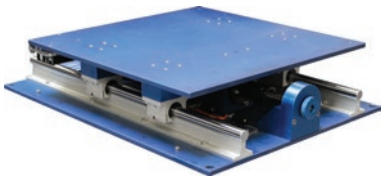
Mechatronic Sensors Board

Mechatronic Actuators Board

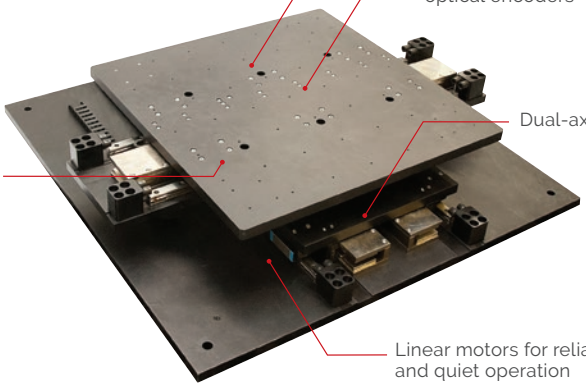
For information on boards compatible with NI ELVIS II, visit www.quanser.com

STRUCTURAL DYNAMICS & EARTHQUAKE ENGINEERING

Shake Table I-40



Shake Table II



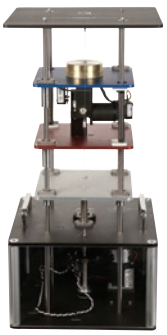
XY Shake Table III

Active Mass Damper

Hexapod

INDUSTRIAL APPLICATIONS

3 DOF Crane



Active Suspension

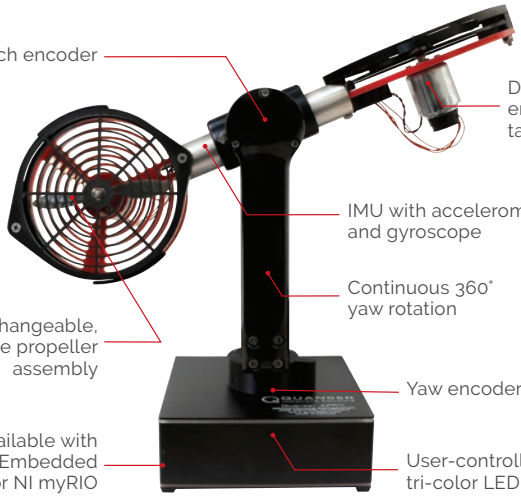
Coupled Tanks

Magnetic Levitation

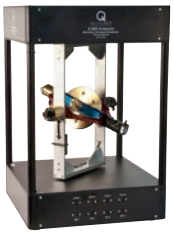
Products pictured are not to scale. Additional workstation components may be required. For full product information and system configurations, visit www.quanser.com

AEROSPACE CONTROL & DYNAMICS

3 DOF Hover
Stationary Quadcopter



Quanser AERO



3 DOF Gyroscope

3 DOF Helicopter

MOTION CONTROL

ROTARY PLATFORM

Rotary Servo Base Unit

Rotary Flexible Joint

Rotary Flexible Link

Ball and Beam

Gyro/Stable Platform

Rotary Inverted Pendulum

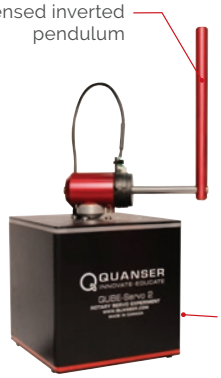
Rotary Double Inverted Pendulum

2 DOF Robot

2 DOF Inverted Pendulum

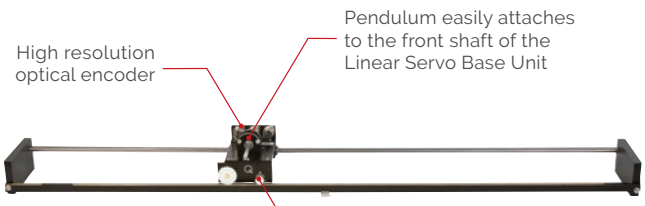
Multi-DOF Torsion

2 DOF Ball Balancer



QUBE-Servo 2

LINEAR PLATFORM



Linear Servo Base Unit*

Linear Flexible Joint

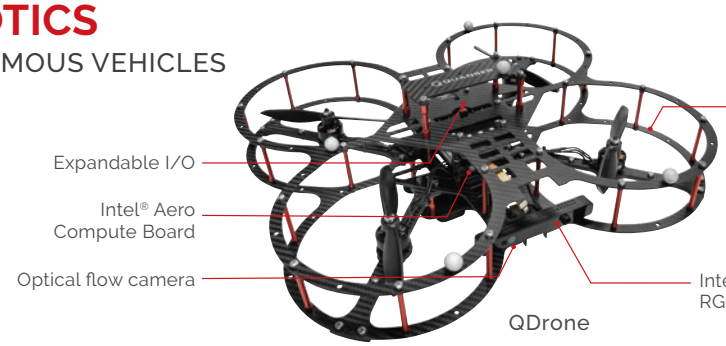
Seesaw

High Fidelity Linear Cart with Triple Inverted Pendulum

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

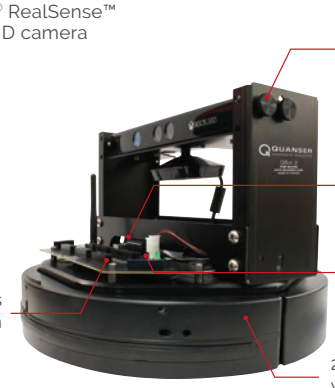
ROBOTICS

AUTONOMOUS VEHICLES



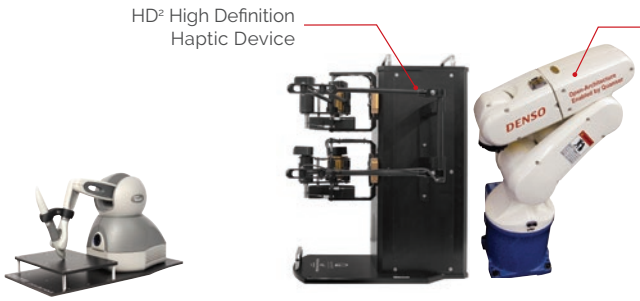
QDrone

Autonomous Vehicles Research Studio



QBot 2e

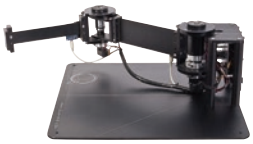
MANIPULATOR ROBOTICS & HAPTICS



OMNI Bundle

6 DOF Telepresence System

2 DOF Serial Flexible Joint



2 DOF Serial Flexible Link

SOFTWARE

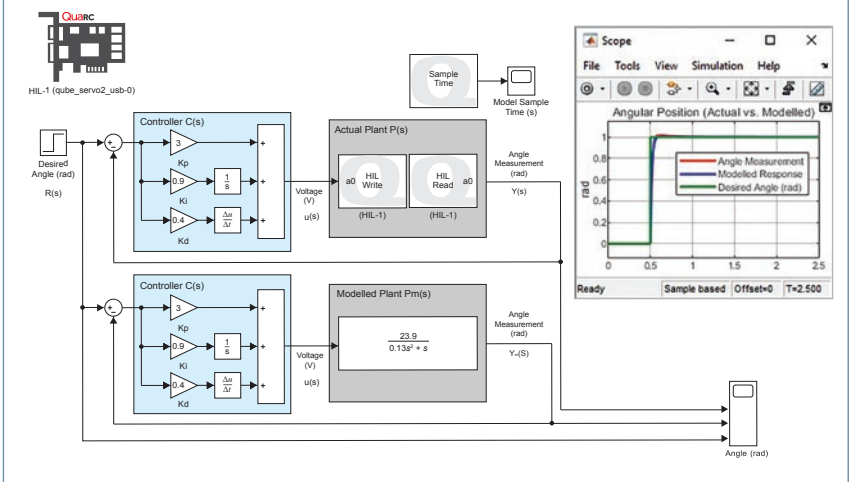
QUARC™ IS THE MOST EFFICIENT WAY TO DESIGN, DEVELOP, DEPLOY AND VALIDATE REAL-TIME APPLICATIONS ON HARDWARE USING SIMULINK®

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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