PRODUCTS AND LAB SOLUTIONS

Answering the most challenging academic questions with innovative technology and methods

Quanser is the global leader in the design and manufacture of lab solutions and products that has transformed the way educators teach the theory, application, and implementation of control, robotics, and mechatronics.

Over 2,500 universities and institutions rely on Quanser labs and solutions to help them attract, educate and graduate a new generation of engineering leaders – expanding their presence and reputation on the global academic scene.

The Quanser approach of innovation, collaboration and education has produced a number of notable technology firsts that pioneered many critical contemporary trends:

- Efficient validation platform for control research and the commercial realization of the inverted pendulum
- High-performance real-time control on common microcomputers
- Research-focused quadcopter preceding the drone revolution by a decade
- Generalized haptic platform for force-feedback telerobotics
- Intelligent, affordable robotic therapy platform for stroke patient rehabilitation
- Mobile-first knowledge platform optimized for engineering content

Guiding principle - the transformational lab

Creating a more enriching and advanced research and learning experience has always been the overarching goal. One that is collaborative, multi-disciplinary and progressive. One that faithfully brings to life the mathematics and theories of engineering and are fully consistent with today's education movements.

- 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, low-maintenance, well-supported and affordable

Ultimately success is capturing the excitement of engineering and conveying it in the classroom to help every student reach his or her potential

ENGINEERING TRAINER BOARDS

For NI ELVIS


Mechatronic Sensors Board


Mechatronic Interfacing Board


Mechatronic Systems Board


Physics and Dynamics Board


DC Motor Control Board


Rotary Pendulum Board


VTOL Board


Energy Conversion Board


HVAC Board


Myoelectric Board

Analog Electronics Lab


Interface Board


Intro Board


OpAmp Board


BJTs Board


Systems Board

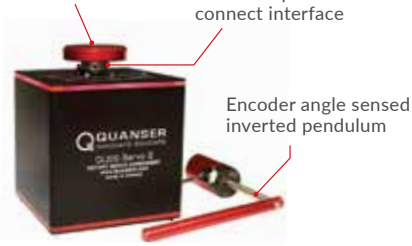

MOSFETs Board


Diodes Board

Mechatronic Actuators Board with NI ELVIS

MOTION CONTROL

QUBE-Servo 2



QUBE-Servo 2

Available with QFLEX 2 USB or Embedded interfacing panel

Rotary Platform


Rotary Flexible Joint


Rotary Flexible Link


Gyro/Stable Platform


Ball and Beam

Rotary Servo Base Unit


Rotary Inverted Pendulum


2 DOF Robot

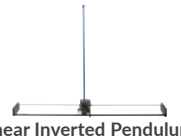

Rotary Double Inverted Pendulum


2 DOF Inverted Pendulum


Multi-DOF Torsion


2 DOF Ball Balancer

Linear Platform


Linear Inverted Pendulum

Linear Servo Base Unit with single, double, and flexible inverted pendulums also available.


Seesaw

Seesaw with inverted pendulum also available.


Linear Flexible Joint

Linear Flexible Joint with inverted pendulum also available.

Linear Servo Base Unit

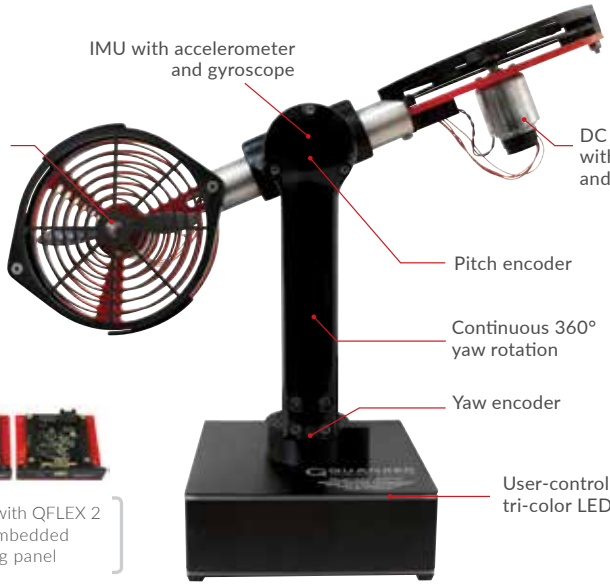

High Fidelity Linear Cart

HFLC High Fidelity Linear Cart with single, dual, double, and triple inverted pendulums also available.

AEROSPACE CONTROL AND DYNAMICS

2 DOF Helicopter

3 DOF Helicopter



Available with QFLEX 2 USB or Embedded interfacing panel

Quanser AERO

3 DOF Stationary Quadcopter

3 DOF Gyroscope

STRUCTURAL VIBRATIONS

Shake Table I-40

Shake Table II

Hexapod

XY Shake Table III

Active Mass Damper
(Additional Add-on)

INDUSTRIAL APPLICATIONS

Magnetic Levitation

3 DOF Crane

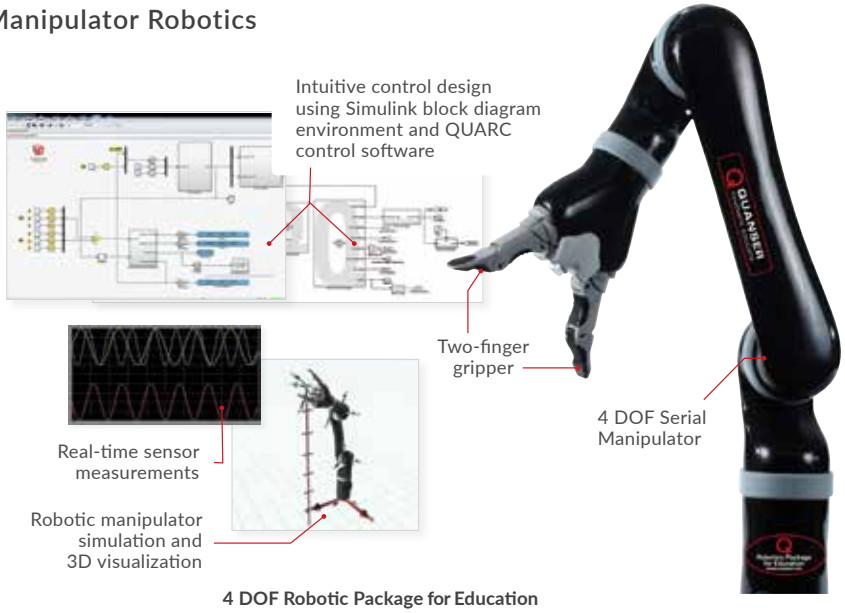
Coupled Tanks

Active Suspension

Heatflow Experiment

ROBOTICS

Manipulator Robotics



4 DOF Robotic Package for Education

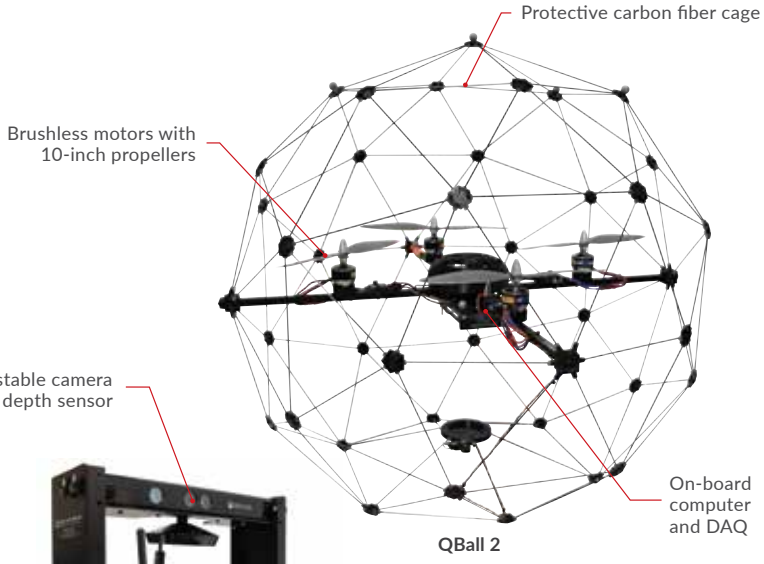
2 DOF Serial Flexible Link

2 DOF Serial Flexible Joint

6 DOF Robotic Platform for Research

6 DOF Denso Open Architecture Robot

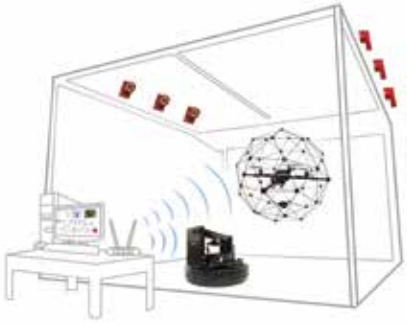
Mobile Robotics



QBall 2

QBot 2

The Unmanned Vehicle Systems Lab consists of unmanned aerial and ground vehicle(s), multi-camera system and control station with software.



Telerobotics and Haptics

OMNI Bundle

HD² High Definition Haptic Device

Telepresence System

Consists of the 6 DOF Denso, HD², and control station with software.

For complete product information, visit www.quanser.com or download the app.

Explore QUANSER

Download on the App Store

GET IT ON Google Play

www.quanser.com

+1-905-940-3575 | INFO@QUANSER.COM |


|


© Copyright 2017 Quanser Inc. Products and/or services pictured and referred to herein and their accompanying specifications may be subject to change without notice. Products and/or services mentioned herein are trademarks or registered trademarks of Quanser Inc. and/or its affiliates. All rights reserved.