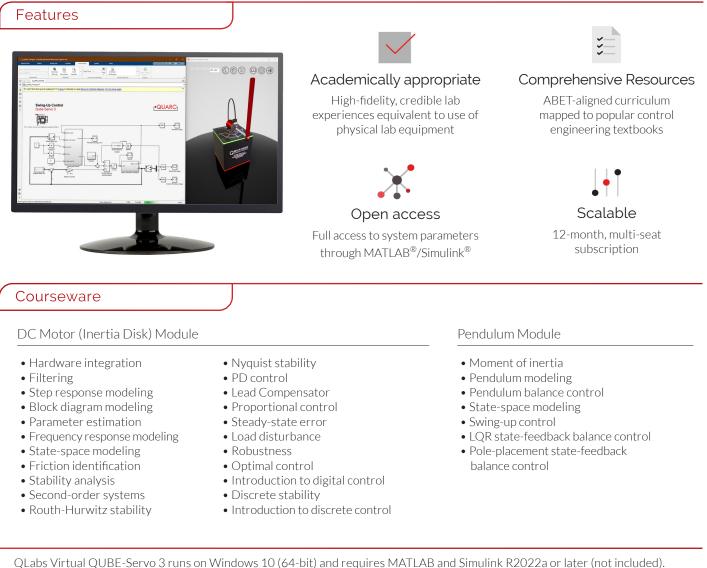


QLABS VIRTUAL QUBE-SERVO 3

Virtual platform for distance and blended undergraduate control systems courses

QLabs Virtual Qube-Servo 3 is a fully instrumented, dynamically accurate virtual twin of a classic Qube-Servo 3 system. It behaves in the same way as the physical hardware and can be measured and controlled using MATLAB®/Simulink® and other development environments. QLabs Virtual Qube-Servo 3 can enrich your lectures and activities in traditional labs, or bring credible, authentic model-based lab experiences into your distance and online control systems course.

Same as the physical Qube-Servo 3, the virtual system features a DC motor with the inertia disk and inverted pendulum modules. Rotary encoders measure the angular position of the DC motor and pendulum. The motor angular velocity is measured through a software-based tachometer for both the base and the pendulum.



QLabs virtual QOBE-selvo Sturis on vviridows 10 (04-bit) and requires MATLAB and Simulink R2022a of later (not included).

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