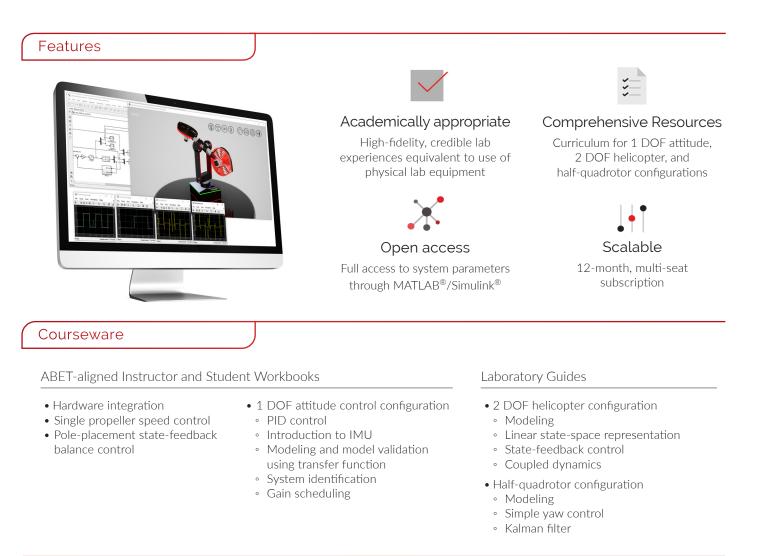


## QLABS VIRTUAL QUANSER AERO

## Virtual platform for distance and blended undergraduate aerospace and controls courses

Virtual Quanser AERO is a fully instrumented, dynamically accurate virtual twin of a classic Quanser AERO 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 Quanser AERO can enrich your lectures and activities in traditional labs, or bring credible, authentic model-based lab experiences into your distance and online aerospace and control systems courses.

Same as the physical Quanser AERO, the virtual system is a dual-rotor helicopter model that can be reconfigured for 1 DOF attitude, 2 DOF helicopter, or half-quadrotor experiments. Rotary encoders measure the angular position of the propeller DC motors, the speed of the motors is measured through a software-based tachometer.



QLabs Virtual Quanser AERO runs on Windows 10 (64-bit) and requires MATLAB 2019a or later (not included).

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