



Quanser Aero-2

Quanser Aero-2 is a teaching platform for fundamental and advanced control theory concepts from Quanser, a global leader in educational solutions. With its compact enclosure, high-quality components, and extensive educational materials, it can be quickly implemented in student laboratories. The reconfigurability of the platform allows for the demonstration of various topics, ranging from system modeling and identification to advanced control algorithms. Students are exposed to real engineering...

Basic technical specifications:

Parameter	Value
Device dimensions (D x W x H)	18 x 52 x 40 cm
Operating space (D x W x H)	52 x 552 x 62 cm
Mass	4,7 kg
Pitch Angle Range	90° ($\pm 45^\circ$ from horizontal)
Yaw Angle Range	360°
Pitch Encoder Resolution	2880 counts/revolution
Yaw Encoder Resolution	4096 counts/revolution
Prop Thrust Constant	5×10^{-4} N-s/rad
Inertial Thrust Constant	0.042 Nm/A

Inertial Measurement Unit (IMU)	IIM-42652 Compact 6-Axis MEMS Device
Tri-axis Gyroscope Range	+/- 500 dps
Tri-axis Accelerometer Range	+/-2g

- Quanser Aero-2 is compatible with NI LabVIEW, Matlab/Simulink, and any microcontroller programming language
- The device is supplied with comprehensive educational materials
- The open architecture allows for the development of custom control algorithms