

MOTION SYSTEM

QS-220

2 / 2.5 / 3 DOF



The QS-220 is the flagship motion system for sim racing and flight simulation enthusiasts demanding the highest performance. Featuring class-leading linear actuators with 0.8G acceleration and 800mm/s velocity in Q-MODE, it reproduces instant weight transfers and kerb strikes fast enough to train your reflexes before conscious thought.

WHY QS-220



Q-MODE: 800 mm/s

Lightning-fast response for competitive racing



Ultra-low 8ms latency

Feel every curb and bump the instant it happens



Modular & Reconfigurable

Start with 2DOF today, upgrade to 3DOF anytime



3 Operating Modes

Match platform behavior to your rig weight and driving style

0.8G

MAX ACCELERATION

100mm

ACTUATOR STROKE

800mm/s

MAX VELOCITY

<8ms

LATENCY

0-100Hz

VIBRATIONS

WHAT YOU'LL EXPERIENCE

RACING

- › Acceleration & braking G-forces
- › Lateral acceleration in corners
- › Wheel slip and wheel lock
- › Rumble strips feedback

FLIGHT SIMULATION

- › Positive & negative G-forces
- › Engine & rotor vibrations
- › Turbulence effects
- › Landing gear feedback

COMPATIBLE WITH

- QS-Pivot (2.5 DOF upgrade)
- QS-H13 Seat Mover
- QS-CH2 Motion Platform
- QS-BT1 Belt Tensioner
- Most Aluminum Cockpits

OPERATING MODES (3DOF CONFIGURATION)

Parameter	Heavy Duty	Performance	Q-MODE
Max Velocity	300 mm/s	400 mm/s	800 mm/s
Max Acceleration	0.4 G	0.6 G	0.8 G
Max Payload (3DOF)	350 kg	250 kg	200 kg
Voltage	120/230V	120/230V	230V only

SPECIFICATIONS

Architecture	2 / 2.5 / 3 DOF
Actuator Stroke	100 mm
Control Frequency	1000 Hz
Vibration Range	0-100 Hz
Latency	<8 ms

Power Supply	120/230V AC
Connection	USB
Actuator Height	560-660 mm
Product Weight	30 kg (per set)
Noise Level	54-59 dB (home-friendly)

WHAT'S IN THE BOX? (3DOF CONFIGURATION)

QS-220 Motion Set

- ✓ 4x linear actuators
- ✓ 8x mounting brackets
- ✓ 2x power cabinets
- ✓ Set of cables

QS-MC6 Controller Set

- ✓ USB motion controller
- ✓ Motion lock switch
- ✓ Connection cables

QUBIC SYSTEM

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PRODUCT



MANUAL

CONNECT WITH US

Discord: qubicsystem
YouTube: @qubicsystem
Instagram: @qubicsystem

For detailed specifications and installation guide, see the product manual at qubicsystem.com/um