

MOTION COCKPIT

QS-V20

4 DOF with Traction Loss



The QS-V20 is an extended 4DOF motion cockpit for training, VR and themed venues as well as racing simulation. With 0.9G acceleration and a built-in traction-loss axis, it reproduces the physical cues drivers use to feel grip limits, so the body learns to catch slides before the eyes react.

WHY QS-V20



Traction Loss

The body learns to catch slides before the eyes react



Room-Friendly

No dedicated sim room needed



Super Silent

Ride at 2 AM without waking anyone upstairs



Plug & Play

Auto-detects supported titles - ready to run in minutes

4DOF

ARCHITECTURE

0.9G

MAX ACCELERATION

800mm/s

MAX VELOCITY

<8ms

LATENCY

0-100Hz

VIBRATIONS

WHAT TO EXPECT

MOTION EFFECTS

- › Acceleration & braking G-forces
- › Lateral acceleration in corners
- › Heave motion on bumps
- › Roll and pitch dynamics

TRACTION LOSS

- › Oversteering feedback
- › Wheel slip sensation
- › Weight transfer feeling
- › Drift control feedback

COMPATIBLE WITH

- QS-BT1 Belt Tensioner
- Flight Simulation Peripherals
- Most Sim Racing Accessories

SPECIFICATIONS

AXIS	RANGE	Q-MODE Velocity / Acceleration
Heave (Vertical)	-51.8 / +51.5 mm	800 mm/s / 0.9 G
Pitch	±5.5°	40°/s / 500°/s²
Roll	±7.6°	110°/s / 1400°/s²
Yaw	±6.1°	75°/s / 900°/s²
Voltage		230 V
PAYLOAD SPECIFICATIONS		
Payload	150 kg	
MAIN DIMENSIONS		
Total Width	1195 mm	
Total Length	1716 mm	
Min Height	998 mm	
Max Height	1101 mm	
Product Weight	280 kg	

PERFORMANCE		
Connection	USB	
Stroke	100 mm	
Vibration Range	0-100 Hz	
Latency	<8 ms	
Architecture	4 DOF (with Traction Loss)	
Noise Level	57.5-66 dB (home-friendly)	
Power Supply	120/230V AC, 1-phase	
POWER DRAW	120 V	230 V
Average Power	0.8 kVA	1.6 kVA
Peak Power	1.2 kVA	3.1 kVA
Average Current	6 A	7 A
Peak Current	11 A	15 A
Avg Power - Stress Test	0.4 kW	0.6 kW
Avg Power - Typical Game	0.07 kW	0.08 kW

WHAT'S IN THE BOX?

QS-V20 Motion Cockpit

- 4x linear actuators + 2x Power Cabinets
- Adjustable wheel, seat and pedal brackets
- Desk with mounting points + entry step

Accessories

- QS-MC6 controller
- Transport wheels + QS-BT1 bracket
- Complete cable set + Motion-Lock Switch

QUBIC SYSTEM

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PRODUCT



MANUAL

CONNECT WITH US

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