

# MOTION COCKPIT QS-V20

**4<sup>DOF</sup>**

ARCHITECTURE

**<8ms**

LATENCY

**1000Hz**

MAXIMUM CONTROL FREQUENCY



**0.88g**

MAXIMUM ACCELERATION

**900mm/s**

MAXIMUM VELOCITY









**0-100Hz**

VIBRATIONS FREQUENCY RANGE

## MOTION COCKPIT QS-V20

The QS-V20 is an extended 4DoF motion cockpit, designed for pro racing car simulation, dedicated to both drivers training and sim racing enthusiasts. The motion system based on world's fastest linear actuator's technology provides incredible levels of vehicle feedback to the driver. This motion platform is suitable for Rally, GT and F1 simulations, also the small footprint and lightweight design allow to fit the machine to every racing room.

## KEY FEATURES

 <p><b>Traction loss</b> Incredible oversteering feedback sensation</p>	 <p><b>Compact design</b> Small footprint and lightweight body</p>	 <p><b>Easy to deploy</b> Predefined set of motion profiles for various actuators configurations</p>	 <p><b>Modular and Reconfigurable</b> Possibility to expand the system up to 8 cooperating actuators.</p>
 <p><b>Wide range of motion</b> Linear actuators with stroke up to 100 mm</p>	 <p><b>Super silent</b> Extremely quiet and smooth operation</p>	 <p><b>Low power consumption</b> High performance devices with minimal power budget</p>	 <p><b>Plug&amp;Play</b> Ready to work in a few minutes</p>

## GENERAL SPECIFICATION

	EXCURSIONS	Q-MODE 230V		PERFORMANCE MODE 230V		HEAVY DUTY MODE 230V	
		VELOCITY	ACCELERATION	VELOCITY	ACCELERATION	VELOCITY	ACCELERATION
HEAVE	- 51.8 mm, 51.6 mm - 2.039 in, 2.031 in	0.90 m/s 35.4 in/s	8.8 m/s <sup>2</sup>	0.50 m/s 19.6 in/s	5.9 m/s <sup>2</sup>	0.35 m/s 13.7 in/s	2.5 m/s <sup>2</sup>
ROLL	-7.6°, 7.6°	140°/s	1500°/s <sup>2</sup>	80°/s	1200°/s <sup>2</sup>	60°/s	450°/s <sup>2</sup>
PITCH	-5.5°, 5.5°	40°/s	500°/s <sup>2</sup>	28°/s	380°/s <sup>2</sup>	20°/s	150°/s <sup>2</sup>
YAW	-6.1°, 6.1°	75°/s	900°/s <sup>2</sup>	50°/s	710°/s <sup>2</sup>	35°/s	280°/s <sup>2</sup>

ARCHITECTURE	4 DOF with <b>TRACTION LOSS</b>
MAXIMUM CONTROL FREQUENCY	1000 Hz
VIBRATIONS FREQUENCY RANGE	0-100 Hz
LATENCY	<8 ms
POWER SUPPLY REQUIREMENTS	115 / 230 VAC Single Phase
CONNECTION	USB

## PAYLOAD SPECIFICATION

MAX USER WEIGHT	150 kg   330.7 lb
PRODUCT WEIGHT	280 kg   617.3 lb

## MAIN DIMENSIONS

TOTAL LENGTH	1716 mm   67.55 in
TOTAL WIDTH	1195 mm   47.04 in (with step)
TOTAL HEIGHT	1020 mm   40.15 in (with step)

## POWER REQUIREMENTS

	Q-MODE 230V	PERFORMANCE MODE 110 / 230V	HEAVY DUTY MODE 110 / 230V
AVERAGE POWER [kVA]	<b>1.6</b>	0.8 / <b>0.9</b>	0.5 / <b>0.6</b>
PEAK POWER [kVA]	<b>3.1</b>	1.2 / <b>1.4</b>	1.0 / <b>1.2</b>
PEAK CURRENT [A]	<b>15</b>	11 / <b>7</b>	9 / <b>6</b>
AVERAGE POWER (STRESS TEST) [kW]	<b>0.06</b>	0.4 / <b>0.4</b>	0.3 / <b>0.3</b>
AVERAGE POWER (TYPICAL GAME) [kW]	<b>0.08</b>	0.07 / <b>0.08</b>	0.07 / <b>0.08</b>

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## SUPPORTED TECHNOLOGIES

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VR HeadWay, VBS3/4 Plugin, Self Diagnostic, Self calibration

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## OUR SOFTWARE

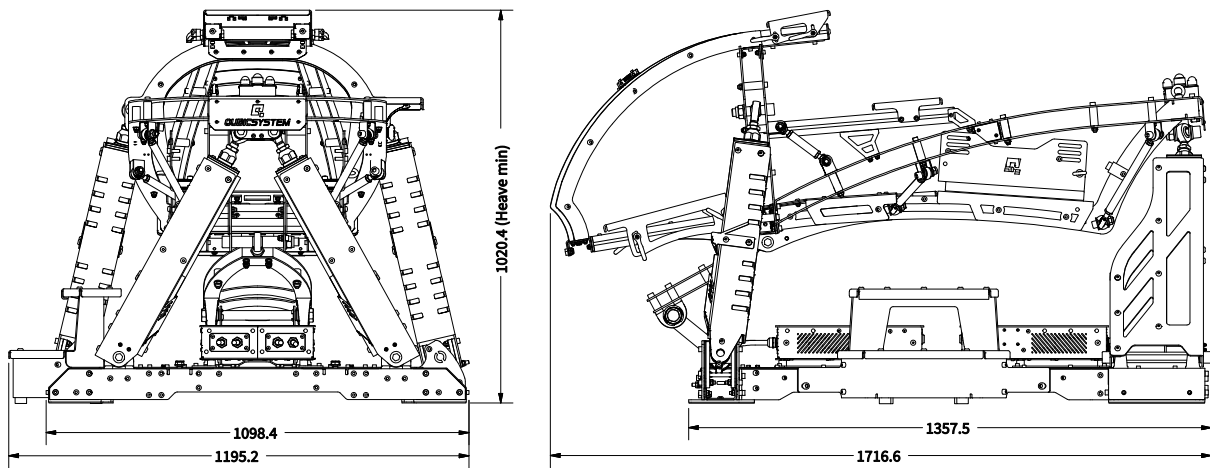
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Qubic Manager (free of charge) | Motion SDK - ForceSeatDI | Motion SDK ForceSeatMI | Motion Theater

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## GENERAL DIMENSIONS

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## USE-CASE EXAMPLE - DRIVING SIMULATOR

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