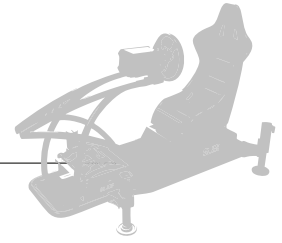


# RACING SIMULATOR



## DRIVING SIMULATORS

SANLAB Racing Simulator is designed to replicate real-world motorsport conditions with high precision. Equipped with advanced motion systems, it provides accurate feedback on acceleration, braking, cornering, and vehicle dynamics.

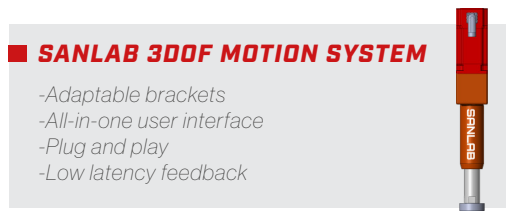
Customizable track layouts and race scenarios allow users to enjoy a variety of racing experiences, from time trials to competitive challenges. Multiple difficulty levels and game modes make it engaging for both beginners and experienced drivers, ensuring fun and excitement in every session.

## APPLICATIONS

- Professional driver training
- Motorsport team practice
- Vehicle dynamics analysis
- Track learning and familiarization
- Competitive e-sports events
- Racing game integration
- Telemetry-based performance monitoring
- Prototype testing for racing hardware
- Entertainment and arcade use
- Immersive VR/AR racing experiences

1.49 m

1.74 m



### SANLAB 3DOF MOTION SYSTEM

- Adaptable brackets
- All-in-one user interface
- Plug and play
- Low latency feedback

## ADVANTAGES

### 3DOF Vertical Axis Motion Platform

Provides high precision and realistic motion feedback with SISO Motion actuators.

### High Precision Motion Feedback

Accurately simulates acceleration, braking, cornering, and road surface effects.

### Real Time Response

Instant data transmission ensures a lifelike and delay-free driving experience.

### Customizable Motion Settings

Motion levels and stroke lengths can be adjusted for different simulation scenarios.

### Durability & Safety

Supports up to 500 kg gross payload with a reliable and safe system architecture.

### DIMENSIONS

Overall Dimensions (L-W-H)	1.74 m - 2.03 m - 1.49 m
Net Weight (product only)	120 kg
Shipping Dimensions (L-W-H)	1.50 m - 1.20 m - 1.00 m
Crate Weight	225 kg
Packaging Type	Wooden crate

### Software Integration

User-friendly interface allows actuator configuration, system monitoring, and telemetry tracking.

### Compatibility Across Games

Works seamlessly with a wide range of games, from racing to flight simulations (PC, Xbox, PlayStation).

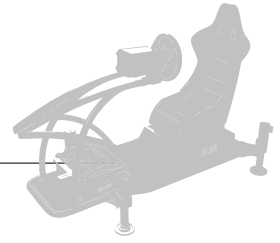
### User-Friendly Design

Engineered for easy setup, oil-free mechanical structure, and ergonomic operation.

### Versatile Applications

Suitable for prototype testing, component validation, joystick control, and driver training.

# RACING SIMULATOR



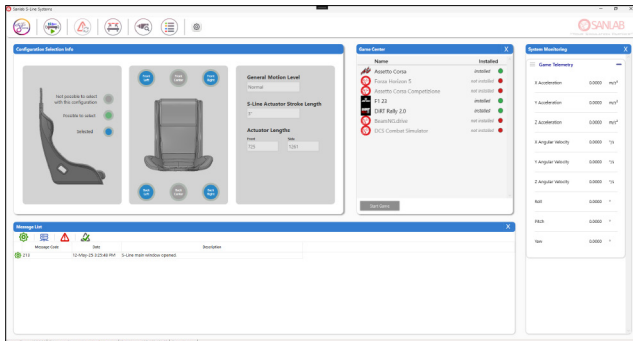
## DRIVING SIMULATORS

### SPECIFICATIONS

Gross Moving Load up to	500 kg
Center of Gravity Above Top Platform	0.50 m (Max)
Moment of Inertia About X-Y-Z axis	250 kg.m <sup>2</sup>
Power Supply	380VAC $\pm$ 10%, 3ph , 50/60Hz
Operating Temperature Range	0°C to +40°C
Motor Type	Servo Motor
Control Interface	Ethernet, CAN, Serial Port

### PERFORMANCE SPECIFICATIONS

	Velocity	Acceleration	Excursion
Heave	$\pm 0.1$ m/s	$\pm 7$ m/s <sup>2</sup>	-0.0381 m - 0.0381 m
Roll	$\pm 15.6$ °/s	$\pm 1.092$ °/s <sup>2</sup>	-5.9 ° - 5.9 °
Pitch	$\pm 5.8$ °/s	$\pm 410$ °/s <sup>2</sup>	-2.2 ° - 2.2 °



User Interface



SANLAB 3DOF Motion System

