



# SANLAB

"Your Motion Partner"

# SMotion10000



## COMPATIBLE WITH

- ▶ Remote control weapon systems
- ▶ Camera tracking systems
- ▶ Gimbal systems
- ▶ Radar systems
- ▶ Rotator systems
- ▶ Turret systems
- ▶ Vehicle cabin/body systems
- ▶ Aircraft cabin systems
- ▶ Heavy load turret systems



## FACTS

- ▶ 6 degrees of freedom
- ▶ 6 electro-mechanical actuators
- ▶ 10.000 kg total payload
- ▶ 1.020 mm actuator stroke



## APPLICATIONS

- ▶ Turret & RCW test
- ▶ Component validation
- ▶ Signal replication
- ▶ Signal generation
- ▶ Real time simulation table
- ▶ Field data system testing simulator



## DIMENSIONS

L 5.7 X<sub>w</sub> 5.5 X<sub>h</sub> 3.7 m



## SMOTION PRODUCT LINE

SMOTION4000

SMOTION6000

SMOTION8000

## SMOTION10000

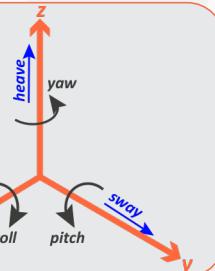
SMOTION12000

SMOTION14000





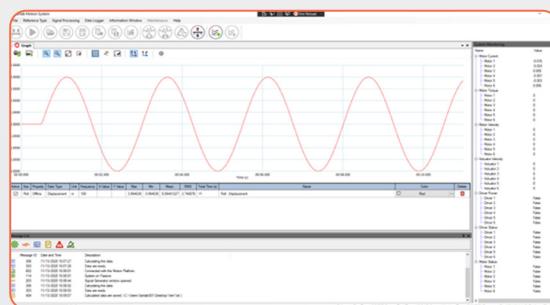
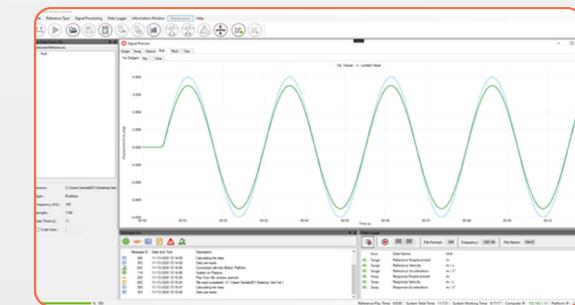
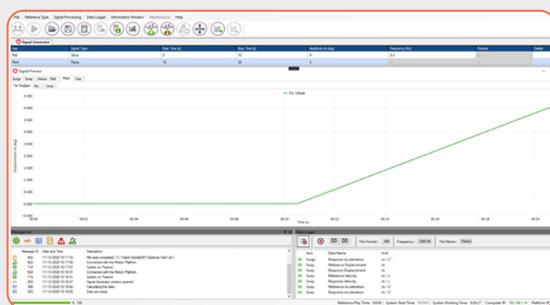
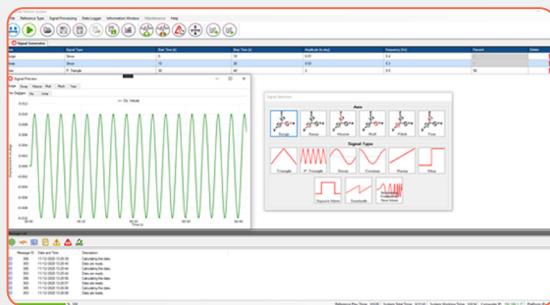
### TECHNICAL SPECIFICATIONS



### HARDWARE COMPONENTS

- ▶ User friendly interface control (GUI)
- ▶ Hardware real-time control
- ▶ UDP based PC communication
- ▶ IMU integrated measurement system
- ▶ Passive and active limitations

### USER FRIENDLY GUI



### Performance Specifications

- ▶ Gross Moving Load up to **10.000 kg**
- ▶ Actuator Stroke **1.020 mm**
- ▶ Center of Gravity Above Top Platform **1.50 m (Max)**
- ▶ Settled Height **2.30 m**
- ▶ Neutral Height **3.06 m**

### Moment of Inertia About

- ▶ Moment of Inertia About X axis **30.000 kg.m<sup>2</sup>**
- ▶ Moment of Inertia About Y axis **30.000 kg.m<sup>2</sup>**
- ▶ Moment of Inertia About Z axis **30.000 kg.m<sup>2</sup>**

### Power Supply

- ▶ 380VAC ±10%, 3ph , 50/60Hz

### Velocity

Surge **± 0.60 m/s** || **± 6 m/s<sup>2</sup>**

Sway **± 0.60 m/s** || **± 6 m/s<sup>2</sup>**

Heave **± 0.50 m/s** || **± 8 m/s<sup>2</sup>**

Roll **± 23°/s** || **± 130°/s<sup>2</sup>**

Pitch **± 23°/s** || **± 130°/s<sup>2</sup>**

Yaw **± 25°/s** || **± 160°/s<sup>2</sup>**

### Acceleration

Surge **± 0.60 m/s** || **± 6 m/s<sup>2</sup>**

Sway **± 0.60 m/s** || **± 6 m/s<sup>2</sup>**

Heave **± 0.50 m/s** || **± 8 m/s<sup>2</sup>**

Roll **± 23°/s** || **± 130°/s<sup>2</sup>**

Pitch **± 23°/s** || **± 130°/s<sup>2</sup>**

Yaw **± 25°/s** || **± 160°/s<sup>2</sup>**

### Excursion

Surge **-0.81 m - 0.91 m** || **-0.98 m - 0.97 m**

Sway **-0.78 m - 0.78 m** || **-0.96 m - 0.96 m**

Heave **-0.67 m - 0.61 m** || **-0.67 m - 0.61 m**

Roll **-21.60° - 21.60°** || **-26.50° - 26.50°**

Pitch **-21.30° - 22.10°** || **-28.50° - 28.20°**

Yaw **-26.30° - 26.30°** || **-29.20° - 29.20°**

### Single Axis

Surge **-0.81 m - 0.91 m** || **-0.98 m - 0.97 m**

Sway **-0.78 m - 0.78 m** || **-0.96 m - 0.96 m**

Heave **-0.67 m - 0.61 m** || **-0.67 m - 0.61 m**

Roll **-21.60° - 21.60°** || **-26.50° - 26.50°**

Pitch **-21.30° - 22.10°** || **-28.50° - 28.20°**

Yaw **-26.30° - 26.30°** || **-29.20° - 29.20°**

### Multi Axis

Surge **-0.81 m - 0.91 m** || **-0.98 m - 0.97 m**

Sway **-0.78 m - 0.78 m** || **-0.96 m - 0.96 m**

Heave **-0.67 m - 0.61 m** || **-0.67 m - 0.61 m**

Roll **-21.60° - 21.60°** || **-26.50° - 26.50°**

Pitch **-21.30° - 22.10°** || **-28.50° - 28.20°**

Yaw **-26.30° - 26.30°** || **-29.20° - 29.20°**



### SIMPLE, SAFE AND ERGONOMIC SOFTWARE

- ▶ Signal generations
- ▶ Field data signal replication
- ▶ Real time signal visualization
- ▶ Signal recording and processing