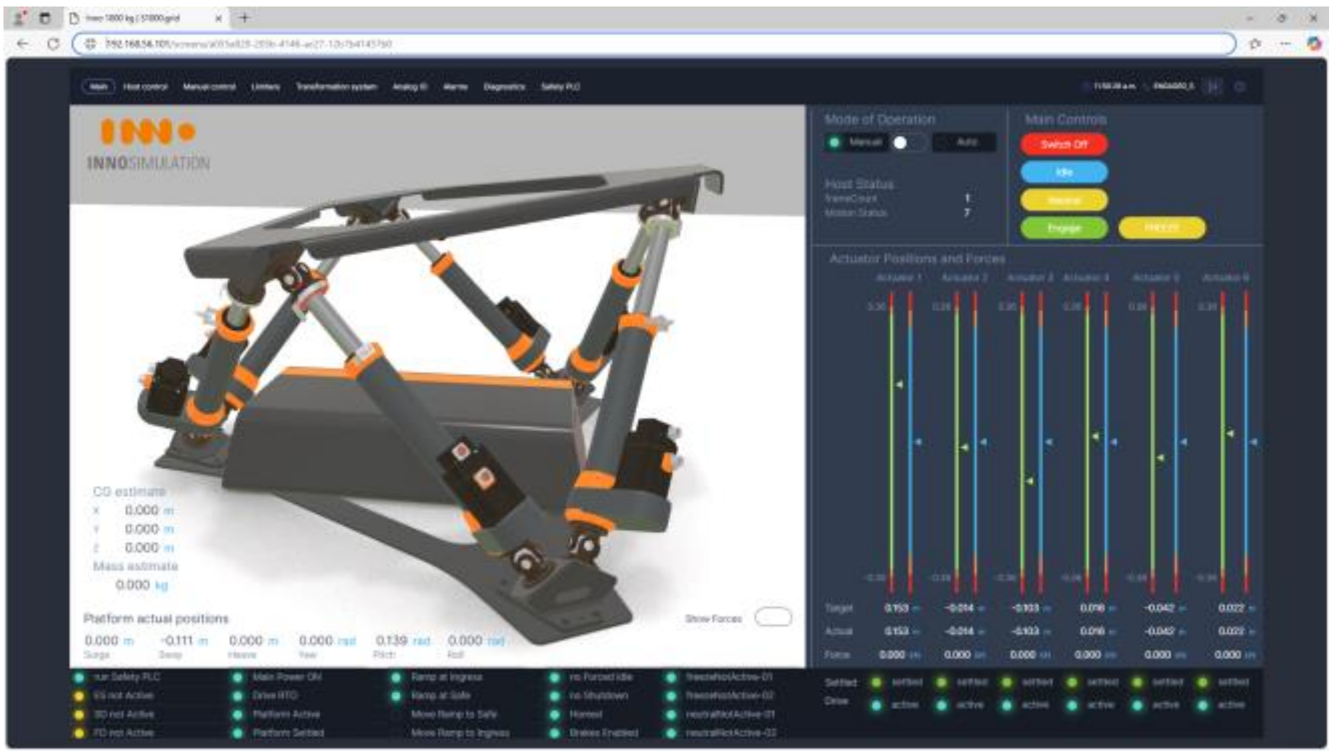
INNOSIMULATION

is a Korea-based company with 20+ years expertise, specializes in simulation systems, motion platform technology, and developing smart mobility virtual testing solutions using XR and AI technology for automotive, defense, and aerospace sectors.

MOTION PLATFORM CONTROL SOFTWARE



KEY BENEFITS AT A GLANCE

- Real-time monitoring of actuator force/position, and platform kinematics
- Real-time payload weight and CG monitoring
- Safety alarm and diagnostics features for efficient troubleshooting
- Option to switch between Auto and Manual modes
- Interactive 3D visualization tool for workspace monitoring
- Sinusoidal trajectory generators for testing – with various amplitudes, frequencies, across all channels (Surge, Sway, Heave, Roll, Pitch, and Yaw)
- Emulator software available for integration with users' simulation software

Motion Platform Web GUI

The Motion Platform System features a user-friendly Web GUI interface that enhances motion simulator and operator interactions, offering precise and efficient control of the motion platform. Accessible via any device on the same network, the Web GUI provides a comprehensive suite of tools for real-time monitoring, configuration, testing, and diagnostics.

Trusted by engineers

Innosimulation's Motion Platform and CLS were helpful to develop a high-fidelity Driver-in-the-loop system for us to transition from Software-in-the-loop because they provide web GUI's to enable real-time tuning of torque feedback even without driving simulator's input for steering wheel and brake pedal. Their Hyundai configuration for steering handle and brake pedal feels really similar to real Hyundai vehicles.

- dSpace Korea Team -

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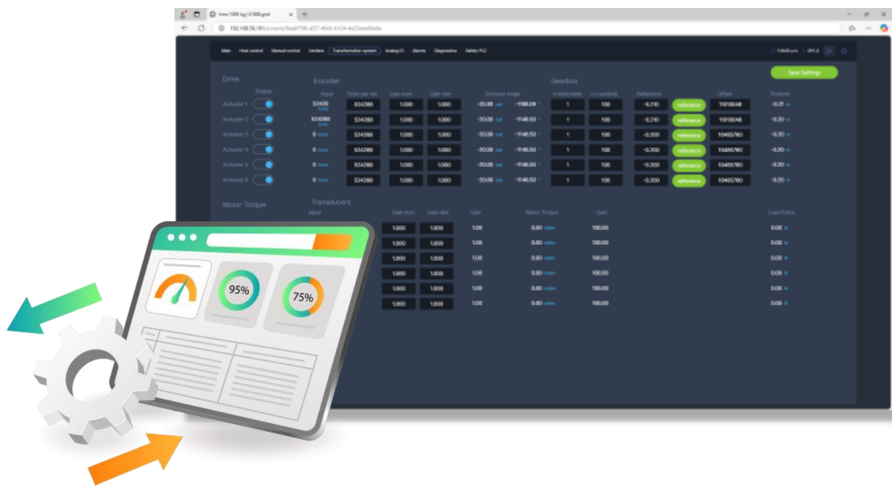
Web GUI

- The Web GUI provides a clear view of all the inputs and outputs between the host PC, the operator (for manual mode), and the motion hardware. The Web GUI allows users to switch between Auto Mode (host communication control) and Manual Mode (manual operation). Additionally, the Transformation System Tab facilitates monitoring of encoder position and motor torque information, and it allows for offset configuration to individual actuators. The limit values for each actuator axis can also be set.

I/O Tab and Safety Monitoring

- The I/O Tab offers inspection of input and output values. The Alarms Tab provides a detailed list of active alarms, helping operators identify and resolve issues quickly. Safety-critical components can be managed and monitored through the Safety PLC Tab, ensuring safety compliance with operational protocols such as ramp and doors lock.

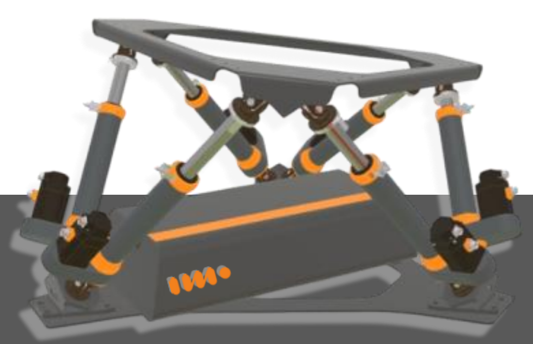


Real-Time Plots

- Advanced features include the ability to display real time plots of the force and position data in both actuator and platform coordinates, providing comprehensive system insights. An interactive 3D visualization tool is available to monitor the platform's position within the workspace. Users can also observe payload weight and center of gravity (CG) in real time, ensuring the mounting position remains within a safe range. The emulator functionality allows users to operate the Web GUI without being connected to the actual motion hardware, enabling simulation and training.

Motion Platform Emulator

- The emulator replicates the functionality of the Motion Platform software in a virtual environment. It allows users to test software interface and configurations without connecting to the actual motion hardware. Once the emulator is running, users can simply open the web GUI in a regular browser and operate the GUI to visualize the motion trajectory generated from users' simulation software.



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