

Full range of Motion Simulators that evolve with your needs

iXMotion Electric 5-Axis Dynamic Motion Simulators DMS Series
3-Axis Flight Motion Simulator FMS-30 Series
2-Axis Target Motion Simulator TMS-20 Series

DMS Series

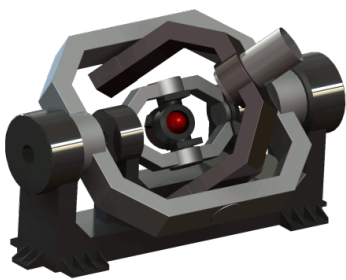


iXMotion multi-axis motion simulators **DMS Series** are dedicated to simulate the motions of vehicles and motions of targets; they are a combination of two to several motion simulators controlled by the same system management. **iXMotion** multi-axis motion simulator **DMS Series** is composed by:

- ✓ **Flight Motion Simulator - FMS Series:** Multi-axis motion simulators (from three rotational axes to n axes). FMS is the motion simulator that simulates motions of vehicles,
- ✓ **Target Motion Simulator - TMS Series:** Multi-axis motion simulators (from two linear or rotational axes to n axes). TMS is the motion simulator that simulates motions of targets.

All **iXMotion** multi-axis motion simulators **DMS Series** use the unrivalled **iXMotion Multi-Axis ProAxe* Controller** and are managed by the user-friendly **iXMotion Multi-Axis ProAxe Software**.

All **iXMotion** multi-axis motion simulators **DMS Series** work in local mode, in remote control mode and in real time (Hardware-In-the-Loop HWIL capabilities with servo loop of 500 μ s).



DYNAMIC MOTION SIMULATOR

COMMAND & CONTROL CABINETS

COMMAND & CONTROL CONSOLES

3-Axis Flight Motion Simulator FMS-30 Series

- Unlimited rotational freedom on three axes
- Up to 1500 deg/sec rate and 12 000 deg/sec² acceleration
- Up to ± 1 arcsec position accuracy
- Up to ± 1 arcsec position repeatability
- Up to 1.10⁻⁵ deg position resolution
- Weight of UUT from 30 kg up to 80 kg

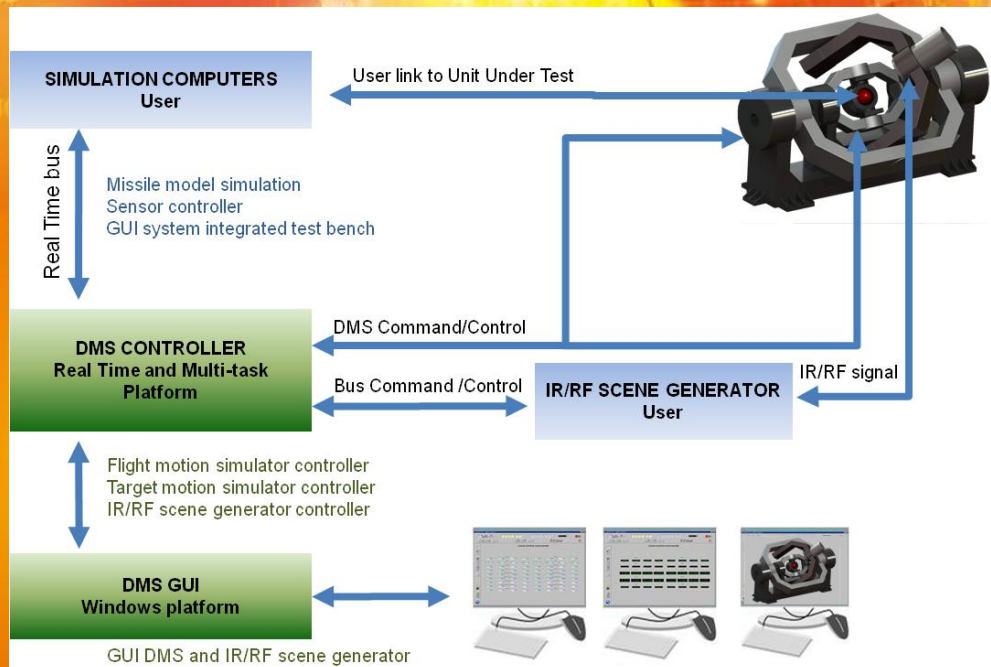
2-Axis Target Motion Simulator TMS-20 Series

- Rotational Freedom of inner axis up to ± 55 deg
- Rotational Freedom of external axis up to ± 55 deg
- Up to 1000 deg/sec rate and 1000 deg/sec² acceleration
- Weight of UUT from 50 kg up to 300 kg

- Real-Time operation / HWIL with servo loop of 500 μs
- ProAxe* Multi-Axis Controller and Software
- Control and command of embedded mounted system

- Integration of IR/RF Scene Generators with performance validation of complete integrated test bench

DMS Series



Overall control of **ixMotion** 5-Axis Dynamic Motion Simulator DMS-50 Series



* Patent pending

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