



MOTUS® Helicopter

**Cost Effective, Full Motion
Helicopter Flight
Simulation**

F2Si's six degrees-of-freedom motion base, LCD Mosaic Wall external visual display, flight control dynamic control loading, and expertise in advanced aircraft systems simulation provides an unparalleled rotorcraft learning platform. The unique design and proprietary technology of MOTUS® also allows F2Si to achieve outstanding cost effectiveness — a level of value that allows flight simulation to be effectively applied in training for any type helicopter.



Six Degrees-of-Freedom Motion Platform

Motion cues are vital to helicopter training. MOTUS provides the angular acceleration cues necessary to support slow speed operations, hover, instrument training, and a wide variety of emergencies. The MOTUS six axis motion base employs all the same techniques used in multi-million dollar hydraulic simulators, such as washout, providing the same vestibular cues felt in actual flight. MOTUS even features a unique Disorient function, which induces vertigo in many pilots and is especially effective in inadvertent VMC-to-IMC scenario training.

The F2Si all-electric motion base is simple in design, low in maintenance, and operates almost silently. Most importantly, the low cost of the F2Si motion base enables affordable full motion flight simulation for any type rotorcraft. Physics of touch down is reflected in base "bump".
FEEL THE LANDING!

The Ideal Helicopter Simulation Device

The full motion MOTUS simulation device is the ideal helicopter training platform. F2Si's unique aerodynamic modeling and six axis motion base offers the most realistic training possible, whether for normal maneuvers or emergencies such as autorotation, tail rotor failure or loss-of-tailrotor effectiveness. For any helicopter in any configuration, F2Si provides the most cost effective training solution.



OEM components are integrated into the training device.





Military or Civilian

Whether for a military or civilian customer, F2Si can provide a device to meet your training needs. An EC-145 or a UH-72A; both can be provided with a high level of fidelity and functionality as well as full motion and an expanded external visual display. Any helicopter type can be simulated.

LCD Mosaic Wall External Visual Display

Unlike most other simulation devices in this price class, F2Si uses a high-resolution, direct-view LCD Mosaic Wall, which offers an exceptionally bright, texture-rich external display. The configuration of the LCD panels can be customized to provide almost any horizontal and vertical field-of-view for any helicopter.

The F2Si external display database is also worldwide-specific, and can be customized by the user to change topographical, airport, or navaid detail. Visual reference points — buildings, pinnacle landing areas, & landing zones — can easily be added to the visual database to enhance training effectiveness.

Aircraft Specific Systems

Flight systems specific to each aircraft, including advanced avionics and automatic flight control systems, can be replicated by F2Si to meet any training requirement. Simulated systems functionality identical to that of the aircraft is particularly important to satisfy insurance-mandated training requirements, and F2Si has developed extensive proprietary technology in cost effective replication of aircraft systems.



F2Si is an established producer of simulation training devices. F2Si designs, builds, and delivers training simulation devices that meet the level of specificity required by our customers. F2Si focuses on the customer's needs to provide low cost, reconfigurable devices, or highly sophisticated aircraft, ballast control rooms, or other non-aviation industrial environment training solutions.



Stimulated and Simulated instruments are combined to offer authentic functionality at affordable prices.



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