



PressRelease

For Immediate Release:

June 4, 2103

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Galil Motion Controllers used in 6-Degrees of Freedom Platforms Developed by InMotion Simulation Systems

(Rocklin, CA) — InMotion Simulation Systems uses Galil multi-axis motion controllers for precise control of their 2-, 3- and 6-Degrees of Freedom (DOF) platforms for their customized motion simulators. The electronically controlled platforms are in simulation systems designed for a variety of industries such as military, entertainment, museums, academia, and flight training.

The 2-DOF and 3-DOF platforms incorporate Galil's DMC-2123 2-axis and DMC-2133 3-axis controllers. For 6-DOF systems, Galil's DMC-4060 6-axis controller is used to manage the pitching, rolling, yawing, heaving, swaying and surging action of the simulator platforms. Galil controllers feature Ethernet connectivity and PID compensation with velocity and acceleration feed forward.

"The precise, real-time responsiveness, lack of latency, and motion of the simulator is critical to our ability to replicate as close to reality as possible the action of flight simulation, for example, or the sensation of a race car traveling at 200 mph. In every case, the motion platform must work correctly and safely, every time" says Mark Barry, President of InMotion Simulation.

InMotion Simulation uses its proprietary motion cueing software to send motion commands on-the-fly to the Galil controller which provides a point-to-point position tracking mode. Also used are the controller's low pass filter to keep the motion smooth and the define position feature to zero the system for accurate position reference.

"According to Barry, programming the Galil controllers is straight forward with easy-to-read documentation and plenty of functionality," says Ann Keffer, Director of Marketing at Galil Motion Control.

To date, InMotion Simulation has hundreds of simulators operating worldwide in museums, trade shows, training and research facilities, universities, military bases, plus more. Some are replicating the sensation of helming a military gun ship or a race car, while others are training military personnel, testing antennas and bringing high adventure 5D (3D plus air and water blasts) theaters to movie and thrill ride enthusiasts."

For more information about the InMotion Simulation application story, see [www.website location](#) for Smartmoves pdf. Detailed specifications for Galil's DMC-40x0 motion controllers can be found at <http://www.galilmc.com/products/dmc-40x0.php> and <http://www.galilmc.com/products/dmc-21x3.php> for the DMC-21x3 controllers.

For more information about Galil, please see <http://www.galilmc.com/> or Ann Keffer, Director of Marketing, at Galil Motion Control, Inc., 270 Technology Way, Rocklin, CA 95765, Ph. 800-377-6329 or email annk@galilmc.com.

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About Galil Motion Control, Inc. (www.galilmc.com)

Privately held and profitable for over 100 consecutive quarters, Galil Motion Control, Inc. was founded in 1983 by Jacob Tal and Wayne Baron. Galil became the first company to produce a microprocessor-based servo motor controller without tachometer feedback. Since then, Galil has continued to advance motion control technology and has found industry-leading acceptance with over 500,000 controllers successfully installed worldwide. Various applications include machines for the medical, semiconductor, machine tool, food processing, and textile industries. Recently, Galil has introduced several motion and I/O controllers for the Ethernet including the high-speed Accelera motion controllers, lowest cost Econo motion controllers and the RIO Pocket PLC series.