

FEATURES

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TRADESHOWS

Photonics West
San Jose Convention Center
San Jose, CA
Booth 1335
January 22-24, 2008
<http://www.spie.org/info/pw>

MD&M West
Anaheim Convention Center
Anaheim, CA
Booth 1797
January 29-31, 2008
<http://www.mdmwest.com>

Machine Building Drives & Automation
National Expo Centre
Birmingham, UK
Booth 2000
February 13-14, 2008
<http://www.devicelink.com/expo/macbuild08/index.html>

AEROTECH QUICK LINKS

[Knowledge Base - FAQs](#)
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Visit the Ensemble Online Community for Complete Information and Service

Aerotech recently created our Ensemble™ Online Community, a comprehensive resource dedicated specifically to our customers using the Ensemble multi-axis motion controller. It is designed to provide a one-stop service center to help our customers get the most out of their Ensemble purchase. The community includes complete descriptions of the Ensemble series products, features and specifications, ordering information, and much more!

What is the Ensemble?

With the Ensemble stand-alone controller, up to ten axes of synchronized motion are offered in a distributed network of panel-mounted drives. This is excellent for applications where drives must be embedded into a machine at various locations or where panel space is at a premium. For desktop and rack-mount installations, the Ensemble is offered in a stand-alone 6-axis unit with integrated drives. Three additional panel-mounted linear or PWM drives may be added externally to the six-axis unit for up to nine axes of motion control.

Please [GO HERE](#) to view the Ensemble Online Community.

Please [GO HERE](#) to discuss your motion application with an Aerotech Application Engineer.

The screenshot shows the Ensemble Online Community website. The main heading is "Ensemble™ Stand-Alone Multi-Axis Motion Controller". Below this, there are images of the controller hardware and a diagram showing a 6-axis stand-alone controller connected to three additional panel-mounted drives. The diagram is labeled "6-Axis Stand-Alone Rackmount or Desktop" and "10-Axis Stand-Alone Panel-Mount Drives".

The Ensemble™ is Aerotech's next-generation, multi-axis controller for moderate to high performance applications with high speed communication through 11 VME II (back I) Ethernet or USB interfaces. The Ensemble™ can control any Aerotech brushless, brush, or stepper motors or stages in any combination, and from PWM and linear drive are available. It offers easy to use, affordable multi-axis motion programming for laboratory experimentation, production testing, or advanced CIM automated manufacturing systems.

The versatile Ensemble™ offers three methods for stand alone, multi-axis control:

- Option 1: Use the Ensemble™ EBox with integrated drives to control up to six axes for desktop or rack mount applications.
- Option 2: Use a distributed network of panel-mounted Ensemble™ CHAMP/UL drives to provide up to ten axes of synchronized motion.

The Ensemble™ Online Community provides a one-stop service center for users of the Ensemble multi-axis, stand-alone motion controller.

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Aerotech Signs ANI Motion Tech Ltd. as Exclusive Representatives for Korea

Aerotech signed an agreement with ANI Motion Tech Ltd. on November 16 appointing them our exclusive representatives for the Republic of Korea. We'd like to welcome them to the Aerotech organization and wish them the very best in our mutual endeavors.



From left to right: Mr. Lee, Technical Support Manager; Mr. Kim, Technical Sales; Stephen A. Botos, Aerotech VP of Sales and Marketing; Mr. Shin, President; Mr. Jo, Assistant General Manager; Mr. Kim, Technical Sales.

Latest Software Releases

This section lists the latest revisions of Aerotech software, providing a handy method of checking to see that your Aerotech software, and hence your Aerotech system, is working at peak efficiency. All Aerotech software is available for instant download from our website — just click the software title! An entry in **red** means the software has been updated since our last newsletter.

Software	Version	Description
A3200 Digital Automation Platform	Version 2.19	Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files
Soloist Single-Axis Controller	Version 2.08.000	Development Tools, Libraries, Help Files, and Manuals
Ensemble Multi-Axis Controller	Version 1.01.002	Development Tools, Libraries, Help Files, and Manuals
U600 HMI	Version 6.00.136	Windows® HMI
U600 SDK	Version 6.00.136	U600 Software Developers Kit
U600 LIB	Version 6.00.136	Windows® Help File, U600 Libraries and Utilities
U500 PC-Bus-Based Controller	Version 5.22	Windows® HMI and Windows® Help File
U511 Stand-Alone Controller	Version 5.22	Interface Software and Windows® Help File

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Motion Control and Positioning Library

This resource provides a short summary and a link to articles, tutorials, white papers, and other materials that discuss problems and solutions involving motion control and positioning equipment and systems.

Articles

Micropositioning Meets Mechatronics

Compared to traditional methods, the mechatronic design approach is more of a holistic approach to product design, where the tradeoffs between different functional components (software, hardware, user interface, etc.) are carefully considered for their impact on overall performance. Read the full article [HERE](#).

Motion Control Requirements for Hermetic Seam Welding

A discussion of the motion control platform in regard to hermetic seam welding of sophisticated electronic devices implanted in the human body. Read the full article [HERE](#).

Digitizing a Century of Astronomical Images

Aerotech's ABL9000 air-bearing stage is put to use to efficiently digitize more than 500,000 photonegatives. For more information on this article, click [HERE](#).

Two-Photon Polymerization: A New Approach to Micromachining

Femtosecond lasers enable microfabrication with resolution beyond the diffraction limit. Read the full article [HERE](#).

Aerotech Pushes Mechatronics Envelope with Motion Systems

An interview with Dr. Robert Novotnak discussing how mechatronics is employed in high-precision motion control. Read the full interview [HERE](#).

Precise Triggering of External Events Based on Axis Position

An axis-based trigger in the controller can significantly improve part quality, reduce cycle time, and eliminate processing problems. This article discusses Aerotech's unique PSO (Position Synchronized Output) option. Read the full article [HERE](#).

Linear Motors Application Guide

A tutorial guide to the history, design, and application of linear motors. Get the PDF [HERE](#).

Air Bearings Aid Assembly of Flat Panel Displays

Many manufacturing processes for flat panel displays (FPDs) require precision motion control for feature generation and inspection. Aerostatic bearings are an excellent choice for many of these processes. Read the full article [HERE](#).

Applications Dictate Gimbal Selection

The choice between [direct-drive](#) and [gear-driven](#) gimbals and optical mounts presents an opportunity for a comparison of the pros and cons for each. Read the full article [HERE](#).

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Standards Organizations

1394 Trade Association
<http://www.1394ta.org>

ISA, the International Society for Measurement and Control
<http://www.isa.org>

IEC
<http://www.iec.ch>

ISO
<http://www.iso.org>