

FEATURES

See Aerotech at Photonics West 2007

Latest Software Releases

Motion Control and Positioning Library

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TRADESHOWS

Photonics West

San Jose Convention Center

San Jose, CA

Booth 1206

January 23-25, 2007

<http://www.spie.org/info/pw/>

MD&M West

Anaheim Convention Center

Anaheim, CA

Booth 1797

February 13-15, 2007

<http://www.mdmwest.com>

APEX

Los Angeles Convention Center

Los Angeles, CA

Booth 1771

February 20-22, 2007

<http://www.goipcshows.org>

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Visit Aerotech at Photonics West 2007 And See These Exciting Products!

Aerotech will exhibit our motion control and positioning components and systems in Booth 1206 at [Photonics West](#) in San Jose, CA, from January 23-25. Products to be demonstrated include the [ALAR](#) large aperture rotary stage, [AMG](#) series direct-drive gimbals, the [Ensemble](#) multi-axis controller, the [Automation 3200](#) control platform, and the [ALS1000](#) direct-drive linear stage.

Aerotech's [ALAR](#) series direct-drive rotary stages combine a large aperture and direct-drive motor to offer significant performance benefits versus worm-drive large aperture rotary stages. Applications include single and multi-axis electro-optic sensor testing, missile seeker testing, antenna testing, inertial navigation device testing, photonic component alignment, high-accuracy laser machining, and precision wafer inspection.



ALAR

The [AMG](#) series position and rate gimbal mounts provide precise angular position, rate, and acceleration and are ideal for directing optics, lasers, antennas, and sensors at high speed to very precise pointing angles. Typical applications include missile seeker test and calibration, LIDAR, electro-optic sensor and FLIR testing, airborne target tracking, optical testing of space-based sensors in a vacuum, and angular testing of inertial sensors such as gyros, MEMS, accelerometers, and inertial reference units.



AMG

The [Ensemble™](#) is Aerotech's next-generation, multi-axis controller for moderate- to high-performance applications with high speed communication through 10/100 Base T Ethernet or USB interfaces. It offers easy to use, affordable multi-axis (1- to 10-axes) motion programming for laboratory experimentation, production testing, or advanced OEM automated manufacturing systems.



Ensemble Drives, Stand-alone Controller,
and Software

[Automation 3200](#) is a software-based (no PC slots required) motion, vision, PLC, robotics, and I/O platform and marries a robust, high-performance motion engine with vision, PLC, robotics, and I/O in one unified programming environment. The A3200 utilizes the industry standard FireWire® network to

AEROTECH *In Motion*

Dedicated to the Science of Motion

January 17, 2007

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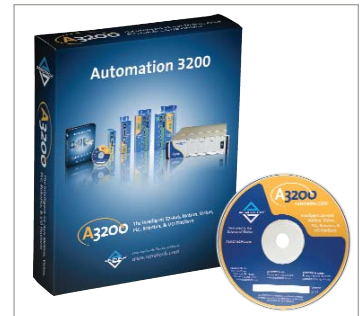
[Job Listings](#)

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provide from 1- to 32-axes of synchronized control with no degradation in performance as the axis count increases.

The [ALS1000](#) is a compact, high-performance linear stage that provides a small cross-section, cost-effective alternative for precision applications. A linear motion guide bearing system, two-axis internal cable management, and high-performance brushless linear servomotor make the ALS1000 the stage of choice in industrial applications such as laser machining, medical component manufacturing, and other applications requiring high accuracy in a production environment.

Please join us for a demonstration at [Photonics West](#). To schedule an appointment with an Aerotech Application Engineer at the show, please click [HERE](#). For information on all of Aerotech's motion control and positioning systems and components, please view our [website](#).



Automation 3200



ALS1000

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 2.17 | Nmotion® SMC Libraries and Utilities, Ncontrol® Software Developers Kit, Nview® HMI, Windows Help Files |
| 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 |
| Soloist Single Axis Controller | Version 2.04 | 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

Two-Photon Polymerization: A New Approach to Micromachining

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

Tackling the Automation Challenge

Automation in the medical device industry continues to grow at a very healthy pace. This article discusses the reasons for this growth, the areas in which this growth is taking place, as well as Aerotech's contribution to this trend. Read the full article [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](#).

Kinematics and Precision Stages Drive Laser Welding

Real-time kinematics coupled with direct-drive positioning systems provide the highest performance solution for laser seam-welding applications. 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](#).

Search the Aerotech [Article Archive](#)

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>