

High Performance Fast Steering Mirrors

ADSYS
CONTROLS INC.

Low-Cost, Mil-Spec Fast Steering Mirrors

Adsys Controls Fast Steering Mirrors (FSMs) are designed to meet high performance specifications at an affordable cost point. A critical element to precision beam control systems, Adsys Controls FSMs are designed for rigorous thermal and vibration environments consistent with the needs of military platforms. The Adsys Controls FSM is designed for the most stringent wave front applications with extremely high control bandwidth. Adsys Controls is building upon established commercial low-cost FSM designs and manufacturing techniques in order to produce an affordable FSM with excellent performance metrics.

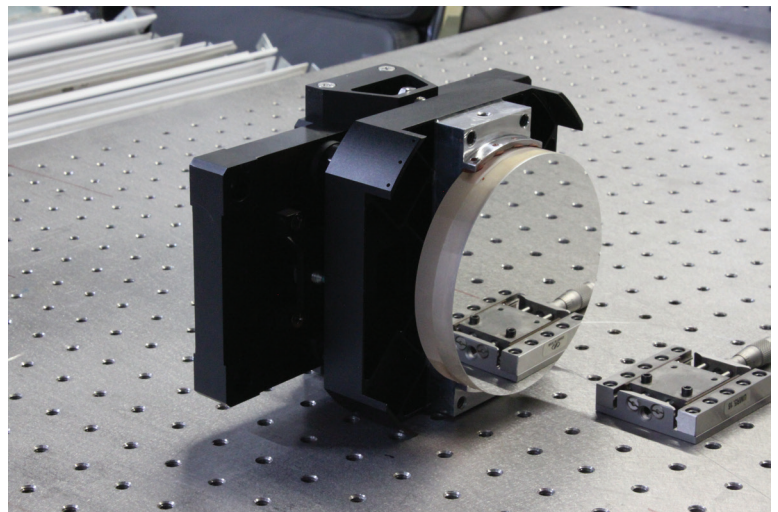
In addition to offering standard products, custom solutions are available to meet specific optical, environmental, and performance requirements.

Key Features:

- » Standard substrate sizes from 1" to 6"
- » Custom designs for customer-defined optical substrates
- » Mil-Spec Qualified: High vibe environments, Low outgassing, wide thermal range
- » Control bandwidths > 500 Hz
- » High incident beam power handling (> 200 kW)
- » Extreme Quality Surface Figure (< $\lambda/10$ RMS)
- » Advanced digital controller

Applications:

- » High Energy Laser Systems
- » Free Space Optical Communications
- » Long Range Imaging Systems
- » Precision-stabilized, High Bandwidth Alignment Systems



Adsys Controls provides solutions for precision control systems, advanced electro-optical systems, laser systems, modeling and simulation, and unmanned aerial systems for military and commercial markets. From electronics design, embedded RT software, and image processing to game-changing laser and electro-optical systems for ISR&T, weapons, communication, and navigation, Adsys Controls provides state-of-the-art solutions for the most challenging problems.

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