Key Offerings

MZA provides a complete suite of tools and capabilities to design, analyze, build, and test laser weapons systems. MZA's offerings include:

- Physics-Level and Analytical Software Modeling Tools
- Laser Weapons System Engineering Tools
- Beam Control Systems including Tracking and Wavefront Control Capabilities with High Speed Real-Time Capability
- Beam Control Hardware including Deformable Mirrors, Fast Steering Mirrors, Wavefront Sensors, and High-Speed CPU and FPGA Controllers

MZA's OTHELA Beam Director

http://www.onr.navy.mil/

Contact Us

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MZA Associates Corporation

Laser weapons made easier

Company History

MZA has a long history of innovation. For the last 20 years, we've provided solutions to a broad range of Department of Defense research organizations in the development and refinement of advanced laser weapons systems.

Vision Statement

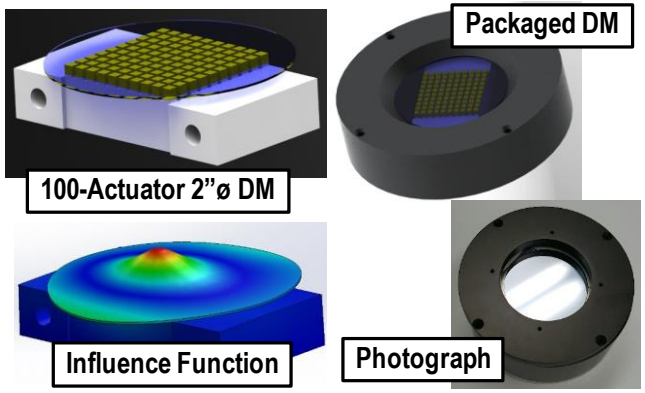
MZA is on a mission to define and refine the optics that matter most when developing Directed Energy systems. Our team of scientists and engineers continually develop innovative solutions to tactical issues.

Solid State Laser-Quick Reaction Capability system's beam director and tracking mount. (U.S. Navy photo by John Joyce/Released, 140307-N-DE005-007 DAHLGREN, Va. (March 7, 2014))

Core Competencies

- **Modeling and Simulation Software:** MZA is the world leader in the development of software tools for the modeling and simulation of laser weapons systems. Quick weapon system design and performance evaluation can be done with MZA's SHaRE Matlab toolbox. High fidelity evaluations can be done with MZA's WaveTrain wave-optics tool. Both of these software tools are available free for government use.
- **Laser Weapons System Engineering:** MZA has been part of many of the laser weapons system development and lead the development of the High Energy Fiber Laser (HEFL) program for the ONR. MZA has the ability to design and engineer the mechanics, optics, and software required to make laser weapons a reality.
- **Beam Control Hardware and Systems:** MZA and its affiliate Active Optical Systems have been manufacturing beam control hardware for both military and commercial use including a line of deformable mirrors, wavefront sensors, fast steering mirrors, and high-speed controllers.

Phase II SBIR DM Development



Market/Customers

- Air Force Research Laboratory
- High Energy Laser Joint Technology Office
- Defense Advanced Research Projects Agency
- Missile Defense Agency
- Naval Air Systems Command
- Army Space & Missile Defense Command
- Office of Naval Research
- Arnold Engineering Development Center
- Naval Research Laboratory
- Air Force Institute of Technology
- Naval Postgraduate School
- US Aerospace and Defense Contractors including Raytheon, Lockheed Martin, General Atomics, Textron, SAIC, Boeing, Schafer, Parsons, Radiance, Kratos
- US Educational Institutions including Notre Dame, U of Dayton, UCLA, U of MD, U of Central FL

Contract Vehicles

- Navy SBIR Phase II N00014-15-C-0071
- Air Force SBIR Phase III FA9451-14-C-0221
- Air Force FA9451-15-D-0022
- Others available upon request