

## PLX BEAM STEERING TECHNOLOGY DELIVERS IMPROVED TRACKING of fast-moving targets at long and short range, in a smaller, lighter, lower power unit.



- Laser tracking and infrared countermeasures for defense and C-UAS applications.
- Satellite tracking for navigation, docking and orbital debris removal.
- Free space optical communications.

## PLX INNOVATIVE OPTICAL TECHNOLOGY AND INSTRUMENTS

PLX provides solutions to problems of achieving and maintaining state-of-the-art optical accuracy and stability under severe environmental conditions.

PLX is a registered ISO 9001 company and is fully compliant with ISO requirements. We design and manufacture products that meet a variety of operating conditions, including demanding military applications.

Our extensive in-house manufacturing and environmental testing facilities, performance testing capabilities and state-of-the-art optical analysis equipment provide total quality management and accountability.

PLX products and systems are available in a wide variety of materials, mirror coatings, special metals, sizes, and configurations or can be customized to integrate and fit your specific requirements.



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## BEAM STEERING TECHNOLOGY



Cutting-edge solutions for  
**TARGET TRACKING** and  
**INDUSTRIAL METROLOGY**  
APPLICATIONS

## High Performance Beam Steering Technology designed for System Integrators

By combining low cost Micro-Electro Mechanical Scanning Mirrors (MEMS) with PLX's Monolithic Optical Structure Technology™ (M.O.S.T.), PLX can deliver precision and performance in the harshest operating conditions.

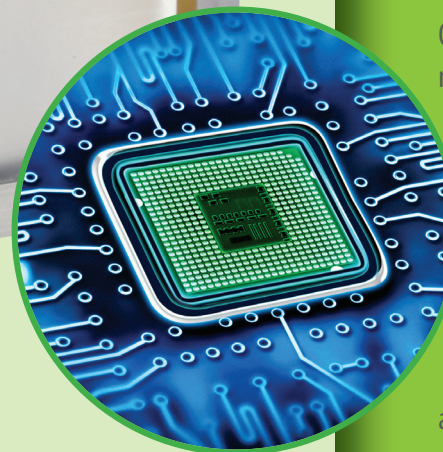
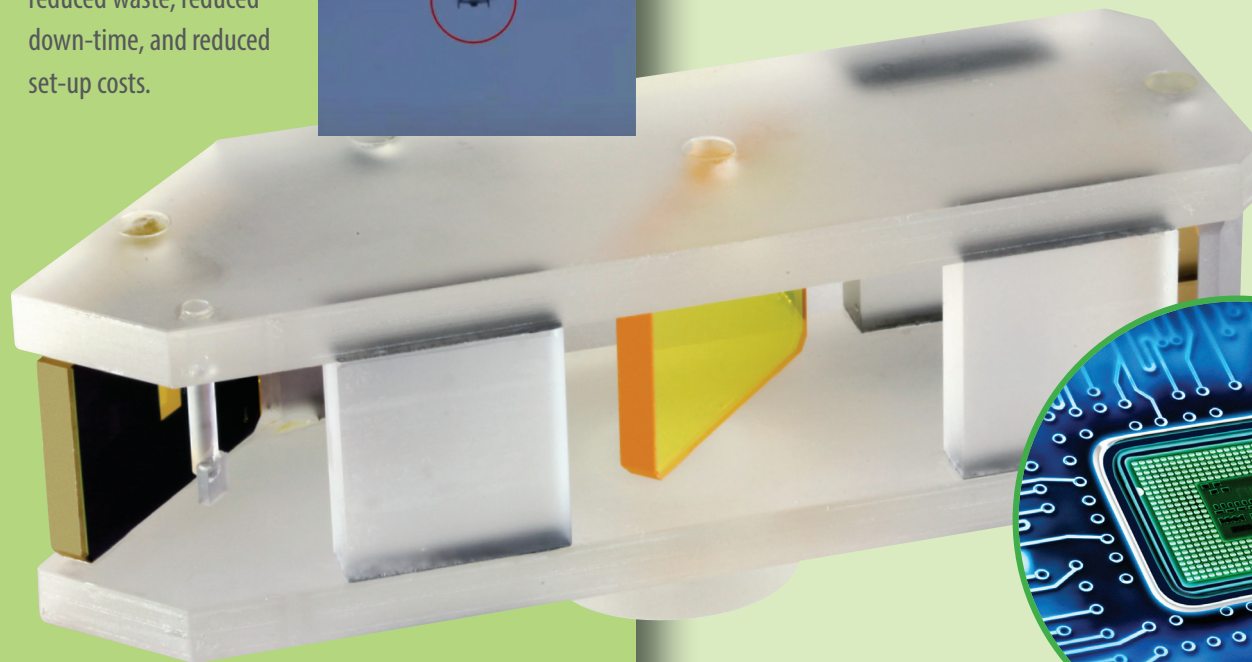
PLX technology can be permanently embedded into systems to provide a real-time, closed-loop control system that achieves higher precision with minimal or no calibration.

For manufacturing applications it results in reduced waste, reduced down-time, and reduced set-up costs.



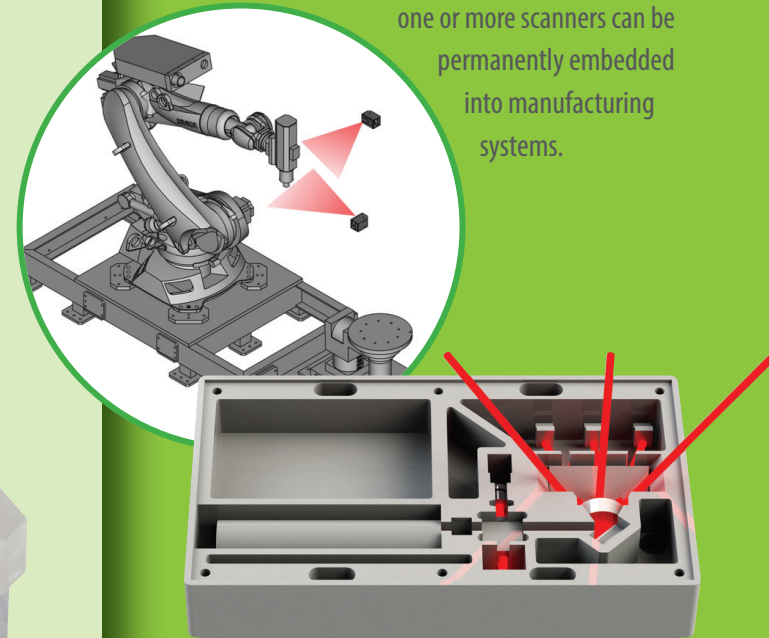
## Superior tracking technology

- 100 times faster than gimballed/motorized platforms using MEMS technology.
- Eliminates the need for video-based tracking hardware/software, reducing power consumption, cost, and complexity.
- Higher system performance captures fast-moving targets, allowing automated object identification/classification.
- PLX's integration technology significantly enhances functionality, minimizing system cost/weight/power impacts.
- Systems designed with our MEMS mirror technology as the only moving part, paired with M.O.S.T., results in low friction and longer life compared to motorized platforms.



## Robotic 6DOF tracking for real-time control, improved precision and repeatability in a compact, robust unit

PLX's innovative beam steering technology can achieve equal precision at a low enough cost that one or more scanners can be permanently embedded into manufacturing systems.



Offering the potential for real-time, closed loop management of manufacturing systems that greatly reduces or even removes the need for calibration to maintain a given accuracy. This reduces waste and enables higher specifications to be achieved. The use of multiple scanning units avoids line of sight issues and can offer solutions to the most complex metrology challenges in, for example, aerospace manufacturing.