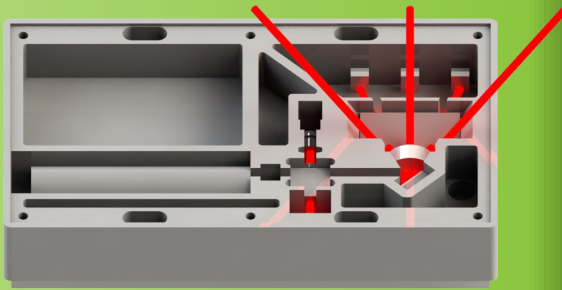


Beam Steering Technology



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.

Superior Tracking Technology



PLX Beam Steering Technology delivers improved tracking of fast-moving targets at long and short range, in a smaller, lighter, lower power unit.

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

Our proprietary Monolithic Optical Structure Technology™ (M.O.S.T) combines all the elements of a complex optical setup into a single monolithic unit, and is permanently aligned so it never needs adjustment, and will last indefinitely.

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.

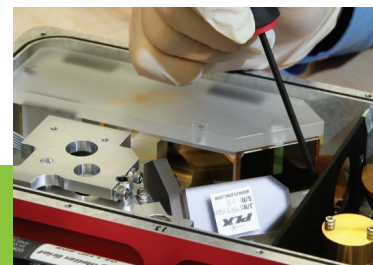
Our extensive in-house manufacturing and environmental testing facilities, performance testing capabilities and state-of-the-art optical analysis equipment provide total quality management and accountability.

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

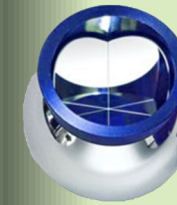


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PLX PRODUCTS AT A GLANCE

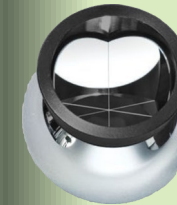


You'll find PLX instruments in
MILITARY, AEROSPACE
and **COMMERCIAL/**
INDUSTRIAL APPLICATIONS,
as well as **University Research and**
Science Labs around the world.



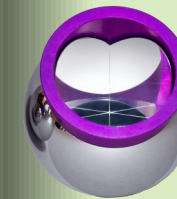
PLX'S HYDROPHOBIC BALL MOUNTED HOLLOW RETROREFLECTOR™ (HYDROBMRs)

Designed for durability and to repel liquids utilizing PLX's proprietary hydrophobic coating. The easy maintenance you want, with the optical quality you need.



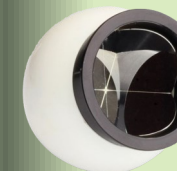
PLX'S STAINLESS STEEL BALL MOUNTED HOLLOW RETROREFLECTOR™ (BMRS)

PLX's Stainless Steel BMRs can significantly improve the performance of all laser tracking systems.



PLX'S ALL METAL, DURABLE BALL MOUNTED HOLLOW RETROREFLECTOR™ (DBMRs)

Offer increased durability and are designed to work in demanding environment. They have been successfully drop-tested on a concrete floor from a height of 6 feet.

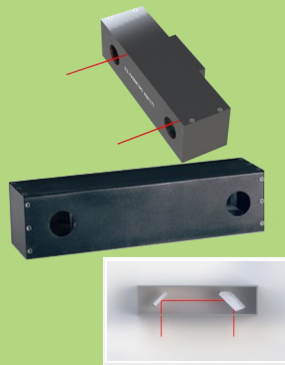


PLX'S CERAMIC BALL MOUNTED HOLLOW RETROREFLECTOR™ (BMRNMS)

Designed for applications requiring non-magnetic components. PLX's Ceramic BMRs are lighter, smoother, corrosion and electrically resistant, with low thermal conductivity.

PLX LATERAL TRANSFER HOLLOW RETROREFLECTORS™ (LTHR) SERIES

Ideal for applications where the main beam must be aligned with two or more other axis while maintaining perfect parallelism.



PLX LATERAL TRANSFER HOLLOW PERISCOPE™ (LTHP)

The LTHP produces one output beam parallel to the input beam, and can produce two output beams if a beam splitter is used. In applications when the LTHP is vibrated, the exiting beam remains static and maintains critical parallelism with the entrance beam.



HARD-MOUNTED HOLLOW RETROREFLECTOR™ (HMHR)

The HMHR is a self-compensating mirror that is totally insensitive to position and movement, such as tilt. It is especially useful for critical applications such as Michelson Interferometers.



OMNI WAVE HOLLOW RETROREFLECTOR™ (OMHR)

The OMHR has a unique, patented, cushion mounting, making it extremely resistant to shock. It is provided in a versatile housing which is compatible with all major mounting systems.



PLX ALL-WEATHER LATERAL TRANSFER HOLLOW RETROREFLECTORS™ (LTHRAW)

Providing rugged, vacuum compatible, hermetically sealed all-weather enclosures for applications that require environmental protection for optical surfaces.



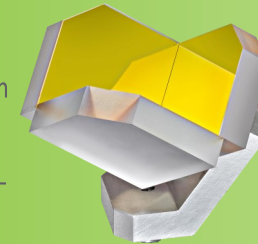
HOLLOW ROOF MIRRORS™ (HRM)

The HRM can be used in almost every application where a roof or porro prism can be used. Useful in all wavelengths, HRMs are available with different accuracies and reflective coatings, and in custom configurations.



ULTRA STABLE HARD-MOUNTED HOLLOW RETROREFLECTOR™ (USHM)

Ultimate in shock and vibration resistance. The USHM is vacuum compatible, thermally stable and tailored to applications where extreme shock and vibration are a concern.



HOLLOW RETROREFLECTOR ARRAYS™ (HRA)

PLX HRAs are perfect for modern FTIR long-path spectroscopy over a wide spectral range and long distances, providing high quality wave fronts for perfect parallelism beams.



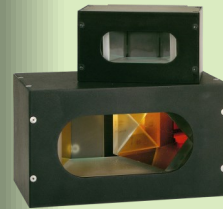
PLX EXCEPTIONAL PERFORMANCE LATERAL TRANSFER HOLLOW RETROREFLECTORS™ (LTHRXP)

PLX's new patent pending ULTRA stable design provides a lightweight, stress-free unit for applications requiring a compact overall size while maintaining exceedingly high accuracy across $\Delta T=140^{\circ}\text{C}$ (284°F). It is vacuum-compatible, high resistance to shock and vibration provides up to sub arc second accuracy, and is highly suited for space applications.



HOLLOW PENTA MIRROR AND ROOF ASSEMBLIES™ (HPM)

PLX Penta Mirrors and Penta Roof Mirror Assemblies provide the performance of a Penta prism with more control of wavelength transmission.



PLX's All-Metal Hollow Monolithic RETROREFLECTOR™ (AMHR)

The all-new line of patent pending AMHRs withstand high temperatures ($>400^{\circ}\text{C}$), magnetic fields, radiation, and nuclear fusion applications. Extremely shock and vibration resistant, perfect for critical monitoring tasks.



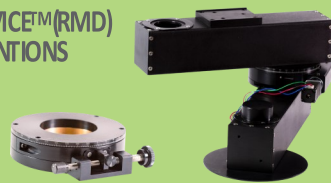
MODERNIZED BORESIGHT MODULE (M-BSM)

The M-BSM, designed by Lockheed Martin and manufactured by PLX, allows simultaneous viewing of multiple lines of sight under harsh environmental conditions with sub-arc second accuracy.



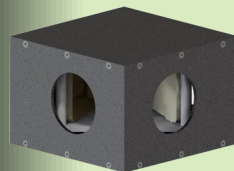
PLX ROTARY MOVEMENT DEVICE™ (RMD) FOR LTHP AND LTHR COMBINATIONS

Use to attach two or more instruments at their respective entrance and exit apertures. This configuration offers a constantly adjustable beam position. Robotic 6DOF tracking for industrial inline metrology.



Hollow BEAMSPLITTING PENTA MIRROR™ (HBPM)

PLX HBPM provides the performance of a pentamirror while generating multiple output beam. The HBPM is a powerful and versatile tool for surveying, laboratory experimentation, and a range of metrology applications.



ULTRA LOW-PROFILE RETROREFLECTOR™ (ULPR) and LPR-SERIES LOW-PROFILE RETROREFLECTOR™ (LPR)

Cutting-edge ultralight compact retroreflectors, offering exceptional rugged stability in a wide range of accuracy options and configurations.



LPRs act as self-compensating mirrors that are totally insensitive to tilt. They are OEM products designed for use by manufacturers of FTIR Spectrometers and systems.



PLX MONOLITHIC INTERFEROMETER

The PLX Interferometers combines all of the elements of a complex optical setup into a single monolithic unit. It is especially useful in broadband light applications such as FTIR and is permanently aligned so it never needs adjustment.

