

Excellence in Opto-mechanical System

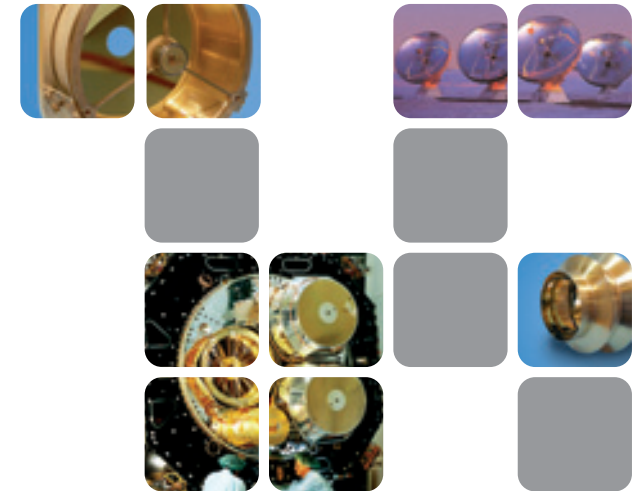
Media Lario Technologies (MLT) is a leading supplier of high-precision reflective optical components and systems, providing solutions from X-ray, EUV to millimeter waves applications and serving, particularly, the Semiconductor Processing Equipment, Space and Terrestrial telescopes and Medical science.

MLT has enhanced and tailored its competencies in high-accuracy replication by electroforming, specialty coating and thermal management to become the supplier of choice for advanced reflective optics and offering valuable solutions to the semiconductor industry technology migration towards ultra-short wavelengths of 13.5 nm.

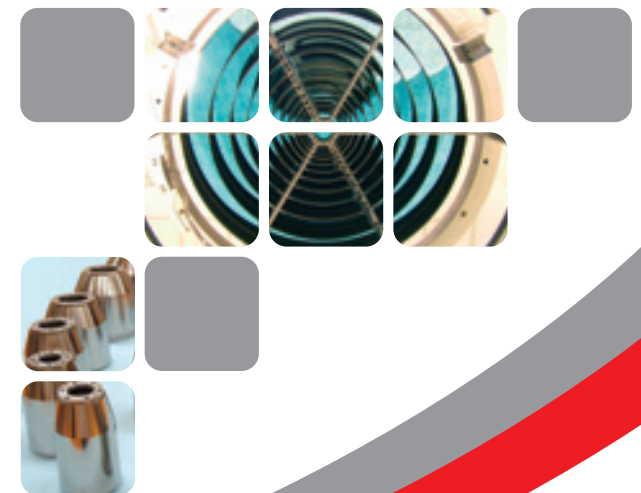
We welcome industrial partnership opportunities to provide best-of-breed opto-mechanical solutions, leveraging our:

- Opto-mechanical and thermal simulation and analysis
- In-house optical design optimized with structural, mechanical and thermal design expertise
- Highly customized specialty coating analysis and capabilities
- Precision alignment, test and integration know how
- Extensive technical support and training capabilities

The Company's broad spectrum of competencies combined with its in-house facilities allows Media Lario Technologies to perform the entire process from developing and testing prototypes through to delivering customized turnkey products.



High Precision Reflective Components and Subsystems



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Media Lario **Technologies**

Semiconductor Lithography & Processing Capital Equipment

MLT brings enabling optics technology to the EUV Lithography market, providing solutions to efficiently collect the light from the EUV Source and transmitting it to the Illumination / Projection Optics. A Wolter - Grazing Incidence Collector (GIC) System is MLT solution for DPP source-based EUVL equipments, while for Laser Produced Plasma (LPP) EUV sources, MLT is developing the normal incidence mirror technology enabling the design of collector systems as well as advanced opto-mechanical components and sub-systems to serve laser annealing and wafer inspection applications.



Wolter Grazing Incidence Collector

Efficient EUV Light Collection

High reflectivity, precisely aligned mirror shells provide 10 - 30 W EUV Power at IF. New patented optical designs enabling high-efficiency collection for the future scanner requirements of 180 W EUV power at IF.

Integrated Thermal Management System

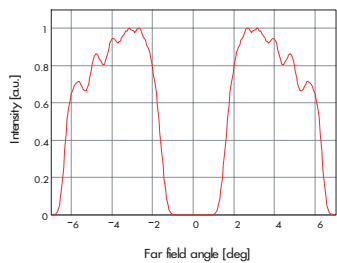
High vacuum compatible system for active cooling, to maintain optical performance under EUV operation.

Custom tailored optical design

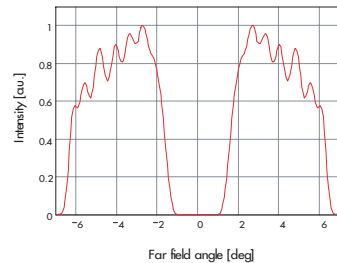
Collector design, coatings, and alignment / mounting interfaces customizable to provide optimized solutions to source and illuminator requirements.

Far-Field Illumination Profile

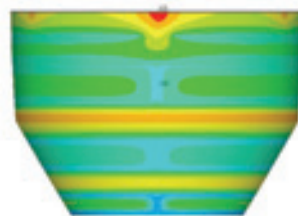
Without thermal load.



With 10 -20 KW power source



AUG 11 2006
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RSYS =0
Power Graphics
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AVRES =Mat
SMIN =18.916
SMX =22.546



Simulated temperature field of cooled optics

Media Lario innovative collector designs and coatings development are fully supporting the current industry roadmap requirements for Grazing Incidence Collectors and provide an effective approach for Normal Incidence Collectors which are expected to be a preferred solution for next generation EUV light sources.

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From Space to Semi and back

Since its foundation MLT continues to pursue participation in Space projects which offer exceptional opportunities in creating innovative technologies and strengthen competencies.

ESA-XMM-Newton



Most of the last X-ray mission (ASI BeppoSax, ESA XMM Newton, NASA Swift) had benefit of the MLT's achievements in producing Optical Modules, composed of precisely aligned nested mirror shells.

We have fully qualified solutions for today's Space application and will continue to challenge the rigors of Space tomorrow, as the leading supplier of optics for X-ray missions. The evolution and differentiation of our manufacturing and system engineering capabilities is allowing us to serve also the market of the ground based telescopes providing panels for the main reflectors and the semiconductor processing equipment market offering reflective optics for illumination optics, and inspection and metrology systems.



IRAM PdBI antenna



R-C telescopes for optical communication