



## OEM Acton Optics Solutions



The Princeton Instruments OEM Acton Optics division is focused on providing the highest performance optical components and optical subassemblies for the Semiconductor, Laser, Analytic Instrument and Imaging markets. We are dedicated to continuously improving our products and processes to meet the emerging demands of the market. Formerly known as Acton Research Corporation, our coatings have been the de facto standard in high performance UV optics for over 40 years.

### Optical Thin Film Coatings

The Princeton Instruments (PI) reputation was built upon our unparalleled UV expertise from 120nm to 350nm. Recent investments have broadened our capabilities beyond the UV. We focus on providing customized thin film designs to optimize your particular application. We have a versatile manufacturing capacity which employs several deposition technologies, proprietary optical monitoring systems and disciplined process control practices. This capacity yields extremely precise thickness control for uniform, clean coatings. In fact, with our Patent Pending optical monitoring system we can control layer thickness to within five angstroms leading to lower cost and higher performance coatings.

### Precision Optical Assemblies

Our 40+ years of experience producing precision aligned opto-mechanical and electro-optical assemblies used in commercial and research grade instrumentation allows PI to provide the best solution for your application needs. Our quality system ensures consistent, high quality products. All of our optical subassemblies are produced in our class 10,000 clean room which also has available class 100 conditions under laminar flow benches.



CAMS spectrophotometer

### Metrology Capabilities

We custom engineer the most advanced metrology systems in the industry. These systems provide spectral and optical inspection capabilities that far surpasses those commercially available. Our widely respected CAMS spectrophotometers can spectrally measure your optics under vacuum, N<sub>2</sub> purged or in air to duplicate the environment of your application. This unique capability allows us to offer definitive spectral measurements in cases where there is a question regarding the validity of a third party's spectral test data. In fact, CAMS measurements are often used as the reference standards on which our customers base their measurements. We do not compromise in our inspections and measurements and this rigorous attention to detail ensures that your downstream problems will be greatly reduced for your optical assemblies.



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Areas of Specialization:

Optics • Coatings • Optical Subassemblies • Broadband Mirrors

• High Reflectance Broadband Mirrors

Deep UV Enhanced: Al+MgF<sub>2</sub>  
Durable UV-VIS: Al+SiO<sub>2</sub>  
VIS-IR: Very durable and robust enhanced Silver and Gold mirrors

• High Transmittance Bandpass Filters

120-320nm  
Ultra-narrowband • Narrowband • Broadband • Wideband Designs

• Beamsplitters

Broadband: UV and VUV  
Laser Line: 157nm to 1100nm

• Antireflection Coatings

Broadband and Multi-Band: UV-VIS  
V-Coatings  
High efficiency Antireflection Coatings for Laser Optics  
Broadband Multilayer

• Durable Laser Optics

Long Life, High Damage Threshold, High Efficiency Mirrors and Coatings  
Excilife: 157, 193, 248, 308, 353nm  
Ng:YAG: 1064, 532, 355, 266, 213nm

• Multi-Band Coatings

Customized reflectance, transmittance and polarization or retardance properties to meet your requirements

• Metrology Laboratory

Accurate QC including reflection, transmission, ellipsometry and defect analysis; plus visual high-resolution CCD camera and microscopic inspection

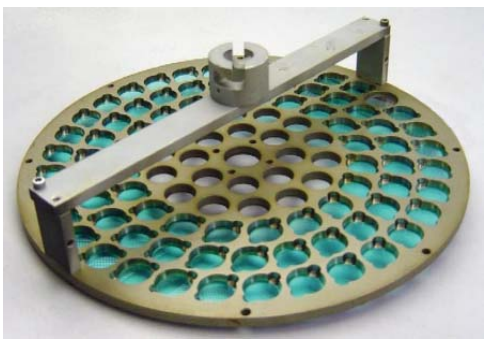
• Mirrors Produced to Your Specifications

Mounted Optics  
Pre-Aligned  
Ready for Installation

• Class 10,000 Clean Room Manufacturing with Class 100 capabilities



An ISO 9000 Registered company



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