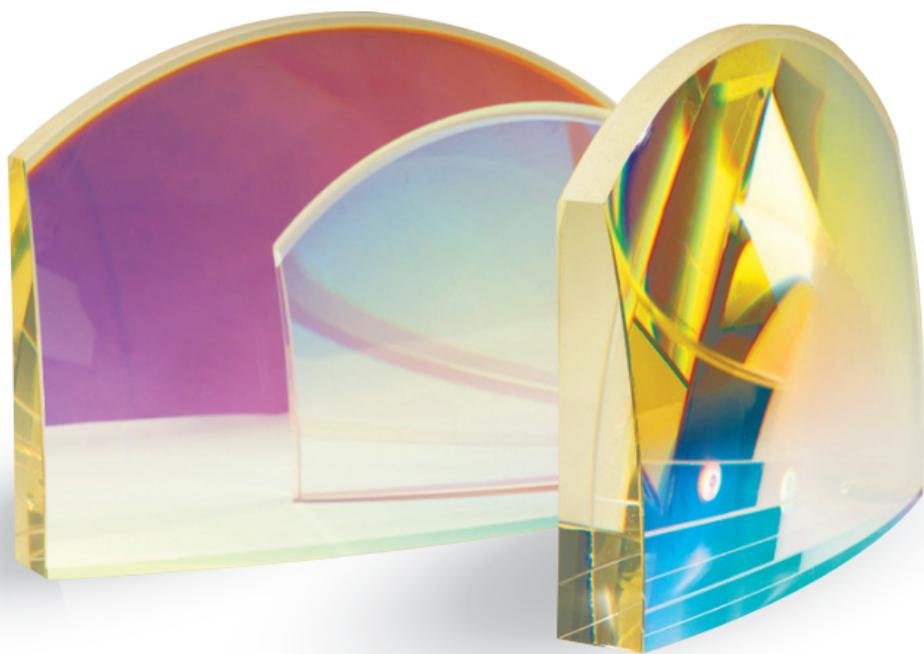


Optimax Coatings

For High Performance Optics

Dedicated to supporting projects that require:

Small volume - **High quality** - **Quick delivery**



OPTIMAX[®]

585.265.1020 | sales@optimaxsi.com | optimaxsi.com

Coating Capabilities

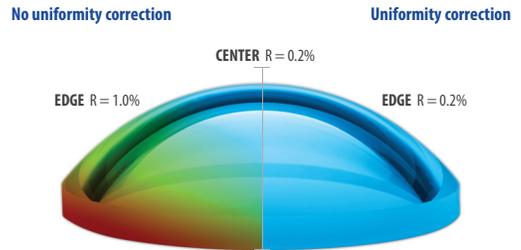
Attribute	Minimum	Maximum
Diameter	3mm	500mm
Wavelength	193nm	5000nm
Use Environment	Vacuum	>95% RH
Durability	Moderate abrasion	Severe abrasion
Measurement	Spectrophotometry	Cavity Ring-Down Reflectivity and Loss PCI Absorption (ppm resolution) Laser Reflectometry
Space Radiation	—	Co60, 1Mrad

Optimax Coating Uniformity

Non-uniform coatings can lead to degraded performance. Our deterministic technique applies uniform coatings on curved surfaces, giving us the ability to ensure good spectral performance across the entire clear aperture.

High Laser Damage Threshold

Our fabrication and coating processes have been developed specifically to achieve world class laser damage thresholds for both pulsed and CW applications. Some of the highest energy laser systems in the world rely on our optics.



High Laser Damage Threshold Coatings

Type	Wavelength	Pulse Length	Typical Specifications	Optimax Performance
HR	1064 nm	10 ns	> 40 J/cm ²	> 125 J/cm ²
AR	1064 nm	10 ns	> 30 J/cm ²	65 J/cm ²
AR	1064 nm	3 ns	> 15 J/cm ²	40 J/cm ²
AR	1064 nm	CW	> 1MW/cm ²	> 1 GW/cm ²

Performance routinely verified through independent test laboratories. 100x-200x Normarski inspection. Note: These values are for antireflection coatings only. High Reflector (HR) values will be higher.

State-Of-The-Art Facility

Our 4,000 sq ft cleanroom facility houses ten optical coating chambers, three environmental testing chambers and metrology equipment for UV through IR.

IBS Coatings

Why Choose Optimax?

Made in USA

Serving sensitive defense and directed energy programs

Size Capabilities

Optimax can IBS coat up to 350mm

Metrology

Optimax has invested in advanced metrology, including custom metrology options. *Laser-based instrumentation.*



Specifications

Ion Beam Sputtered Coatings: 350mm

Mirrors, ARs and Filters

Absorption: <2ppm ARs, <5ppm Mirrors in the NIR

Laser Damage Thresholds: >10MW/cm² CW

For more information visit
www.optimaxsi.com/optical-coatings

Coatings are a critical and often risky step in manufacturing complex optical systems. You'll get finished optical systems faster because of our ownership of the complete manufacturing process.

Optimax manufactures optical coatings for **wavelengths from 193nm to 5000nm** and diameters up to 500mm. Our range of thin film coating technologies are tailored to each customer's spectral, environmental, mechanical and laser damage threshold requirements.



Types of Coatings

- Antireflection
- Mirrors
- Polarizers
- Beamsplitters
- Filters

Optimax Precision Optical Coatings

- DUV through Mid-IR coatings
- High laser damage threshold coatings for pulsed and CW applications
- Uniform coatings on curves and flats
- Long-life DUV lithography coatings
- Low coating stress for improved wavefront control

Optimax Capabilities

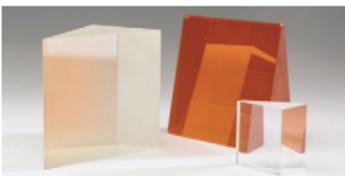
Optimax manufactures the optics behind breakthrough technologies in aerospace, defense, semiconductor and medical devices. Our advanced manufacturing systems allows us to test and deliver highly complex optics with the speed and performance your programs require.



Aspheres



Spheres



Prisms / Flat Optics



Cylinders / Freeforms



Coatings

For more information visit

www.optimaxsi.com/optical-coatings