



COATING CAPABILITIES

LohnStar Optics has the knowledge, experience, and expertise to handle all specialized coating demands. It's the reason why so many companies, researchers, universities, and government laboratories come to LohnStar to address their coating needs. The majority of our business comes from creating custom thin film coating designs for specialized applications. We are able to address a wide variety of needs using the newest and most effective coating technologies, tailored coater configurations, the latest computer software, and state-of-the-art optimization techniques. Our chambers can accommodate optics up to 38" in diameter. We also offer custom tooling fabrication services for optics in almost any shape or size. Contact our sales department to get started on your custom project: Sales@LohnStar.com

Typical coatings:

- Anti-reflection
- Bandpass Filters
- Beam Splitters
- Beam Combiners
- Broadband AR
- Cavity Ring Down Supermirrors
- Diamond-like Carbon
- Dielectric Reflector
- Dual Band AR
- Metallic and Enhanced Metallic
- Narrowband Filters
- 90° Phase Mirror @ 10.6μm
- 90° Phase Mirror @ 9.3μm
- Partial Reflectors
- Polarizing Beamsplitter
- Protected Gold
- Protected Silver
- Quantum Cascade Laser Coatings
- Thorium-free Coatings
- Zero Phase Mirror @ 10.6μm
- Zero Phase Mirror @ 9.3μm
- Non-radioactive Ge FLIR coating per Mil-Spec 48616--Superior Transmission

Substrates:

- Aluminum
- Beryllium
- Calcium Fluoride
- Chalcogenides (AMTIR, BD2, BD6)
- Copper
- Diamond
- Fused Silica
- Gallium Arsenide
- Germanium
- Glass
- Infrasil
- Indium Phosphide
- Molybdenum
- Nd:YAG
- Nickel-plated Aluminum
- Nickel-plated Copper
- Sapphire
- Silicon
- Zerodur
- Zinc Sulfide
- Zinc Selenide

We also provide finished optics in partnership with our fabrication and polishing associates.