



Prototypes

COMPONENTS

Prototype

QUICK TURN PROTOTYPE PROGRAM

COMPONENTS

▮ Lenses and Domes

- Precision Mirrors
- Windows and Prisms

COATINGS – PROTOTYPE

- Metal Reflective Coatings
- Dielectric Coatings
- Beamsplitters
- Anti-Reflective (AR) Coatings
- Indium Tin Oxide (ITO) Coatings
- Custom and Low Temperature Coatings
- Spectral Coating Curves

REPLICATION

- Replication Process
- Replicated Mirrors

OPTICAL DESIGN

OEM LIFECYCLE SUPPORT

Gratings

GRATING EFFICIENCY CURVES

RULING ENGINE

LUNAR LADEE CASE STUDY

CUSTOM GRATING MASTERS

Manufacturing

FABRICATION

COATINGS – MANUFACTURING

REPLICATION

OEM LIFECYCLE SUPPORT

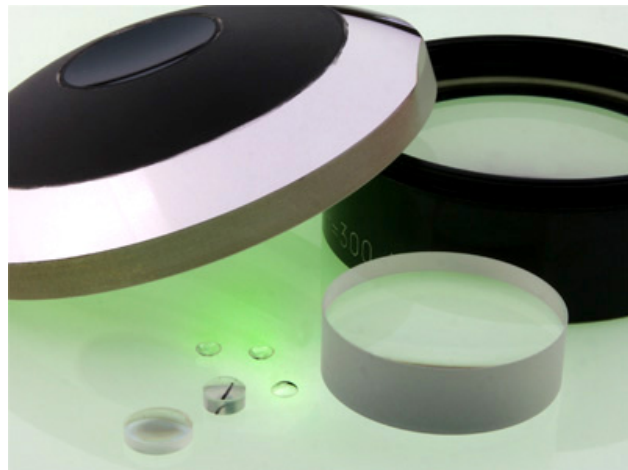
CONTRACT MANUFACTURING

LENSES AND DOMES

Lenses and Domes

Using our in-house capabilities to grind and polish spherical optics, our experienced craftsmen will deliver your custom prototype lenses & domes when you need them.

Contact Ryan at OPCO to discuss your requirements.



Applications

- Eyepieces and vision system optics
 - UAV and Guidance domes
 - Deep UV and Visible Spectrometer optics
 - Beam expander/condenser lenses
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Precision Lenses & Domes manufactured exactly to your specification

- CNC manufacturing to ensure consistency in meeting specs.

- Unique in-house capability to manufacture Test Plates assures lens radius, surface accuracy, and repeatability – a cost and time advantage during the design phase.
 - Centration within seconds, validated by our computer controlled centering scope.
 - Vertically integrated **in-house** manufacturing:
 - **fabrication**, coating, assembly, and test
 - **insures** expedited delivery of your quick-turn prototypes
 - **consistency** for volume manufacturing
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Typical Lenses & Domes Manufactured by OPCO Include

- **Lenses:**
 - Spherical, Ball, Hemispherical, Hyperspherical
 - Singlets, Doublets, Triplets
 - **Domes** down to 2mm diameter
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Materials

- Fused Silica, Low and High Index Glass
- Calcium Fluoride (CaF₂), Magnesium Fluoride (MgF₂)
- Silicon (Si), Germanium (Ge), Zinc Selenide (ZnSe)
- Sapphire

To reduce lead times, we maintain an inventory of the most popular raw materials.

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PROTOTYPE

Quick Turn Prototype Program
Coatings – Prototype
Components
Replication

Optical Design

GRATINGS

Custom Ruling Masters
Ruling Engine
Lunar LADEE Case Study
Grating Efficiency Curves

MANUFACTURING

Fabrication
Coatings – Manufacturing
Replication Process
Contract Manufacturing
OEM Lifecycle Support
Replication

ABOUT US

Capabilities
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Policies
Careers
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