



Our Optics Your Vision



Optical Design and Layout
Mechanical Design
Finite Element Analysis
Rapid Prototyping



Material Selection
Dimensional Tolerancing
Optimized for Manufacturability



Precision Assembly
Full Integration
Contract Manufacturing
Support through Product Lifecycle



ABOUT SHANGHAI OPTICS

Shanghai Optics is one of the most respected companies in terms of quality and technical capability in China's photonics industry, with over 55 years of establishment in China and over 15 years in North America.

We have the capabilities and experience to ensure high quality, on time delivery and cost-effective solutions for our customers world wide.

WHY SHANGHAI OPTICS?

1

High Quality
Product –
ISO:9001-2008

2

State of Art
Metrology

3

Rapid Prototyping
and High Quality
Volume Production

4

Second-To-None
Customer Service and
local offices in the U.S.

5

100% Satisfaction
Guarantee/Worry Free
Return Policy

6

One year product
warranty for all lens
assembly products

Shanghai Optics offers a wide range of lens system design and assembly services from UV to visible to IR wavelengths.

Industries we serve: Industrial Application, Military, Defense & Security, Consumer Products, Commercial/Manufacturing, Entertainment, Medical, Life Science Research, Inspection & Metrology, Aerospace and Scientific Research.

Biomedical

Automotive

Imaging

Defense



VERTICALLY INTEGRATED CAPABILITIES

- Design and majority of manufacturing done in-house
- High standard incoming inspection to ensure top quality
- We only use vendors that are on our authorized vendor list
- Assembly, testing and inspection is all done in-house
- Quality guaranteed and 100% customer satisfaction

MATERIAL SELECTION

Shanghai Optics is able to handle a variety of materials:

Schott/Ohara/Chinese Equivalent Glass; Color Glass/Schott Equivalent; Pyrex; Zerodur; Silicon; Quartz; CaF₂; MgF₂; Fused Silica; GaAs; ZnSe; ZnS; Crystal; Sapphire.

COATINGS

We produce a wide variety of coatings from a single layer of anti-reflective coating to complex multilayer dielectric stacks.

PARTIAL-REFLECTION COATING

- Single Wavelength Band PR Coating
- Broadband PR Coating
- Polarization Beam splitter Coating

HIGH-REFLECTION COATING

- Dielectric High Reflective Coating
- Metallic High Reflective Coating
- Diode Pumped Laser Optics

ANTI-REFLECTION COATING

- Single Layer MgF₂ AR Coating
- Multilayer AR Coating
- Broadband Multilayer AR Coating
- Dual Wavelength Band AR Coating

OPTICAL DESIGN AND LENS ASSEMBLY

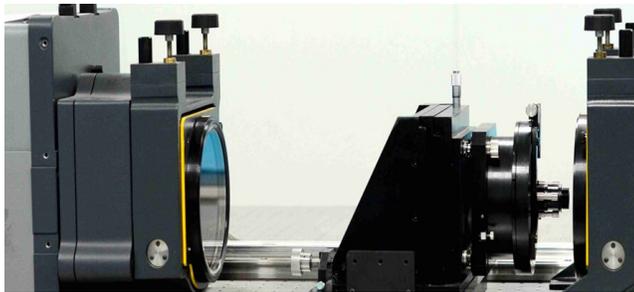
Shanghai Optics relies on our years of custom lens design and optical precision assembly, which has enabled us to bring our clients top quality products with cutting edge functionality.

QUALITY SERVICES

- DFM – Design for Manufacturing Input
- Optical System Design – Component/Lens System/Instrumental
- Optical System Assembly and Subassembly
- Optical Design Optimization
- Custom Optics Fabrication
- Reverse Engineering

ADVANTAGES

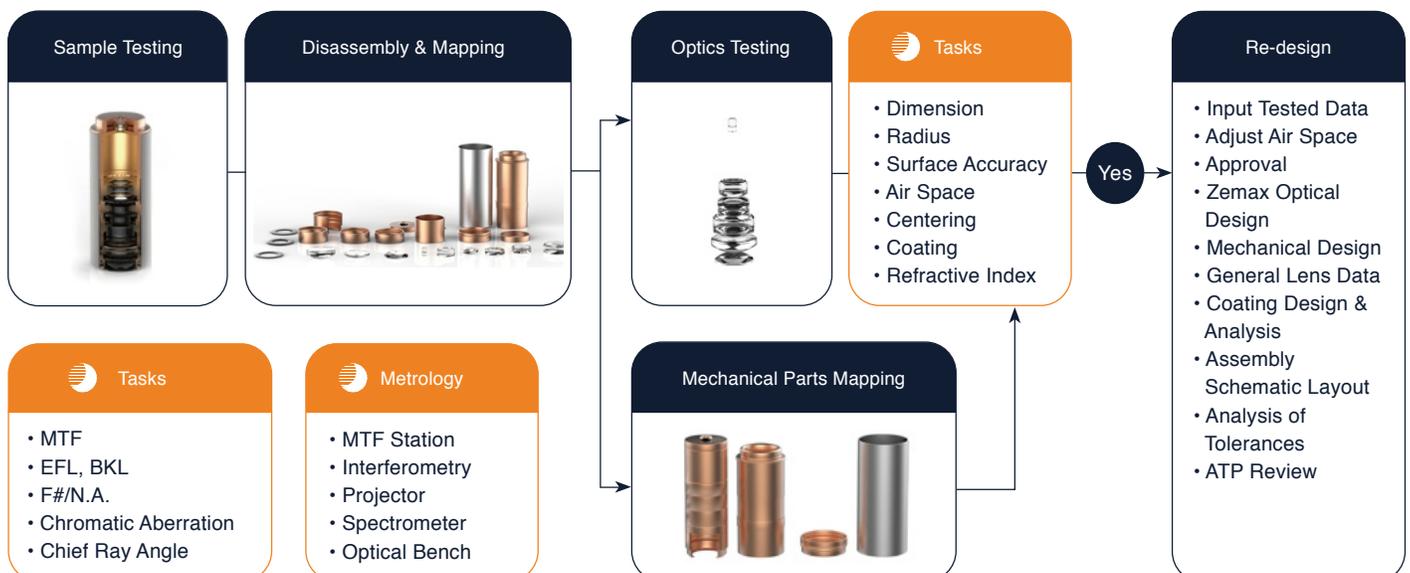
- Skilled Engineers with extensive knowledge
- Short Lead Times
- Competitive Costs
- Design and Manufacturing Expertise to guarantee best results
- Creative Solutions for Lens Design and Optimization
- State-of-the-Art Software



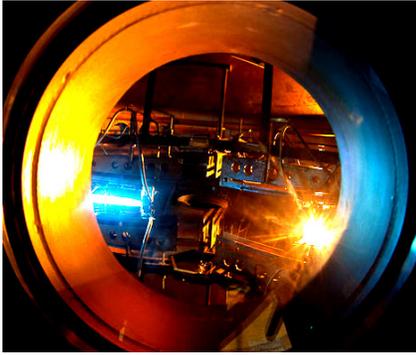
METROLOGY

- TriOptics Image Master (MTF)
- Surface Mopping Microscope
- Radius Test Benches
- 18-inch aperture Zygo mark IV
- Interferometers
- Taylor Hobson Form Talysurf Contact
- Profilometer
- 3-D Simulation Projectors
- Shimadzu Spectrophotometer

REVERSE ENGINEERING



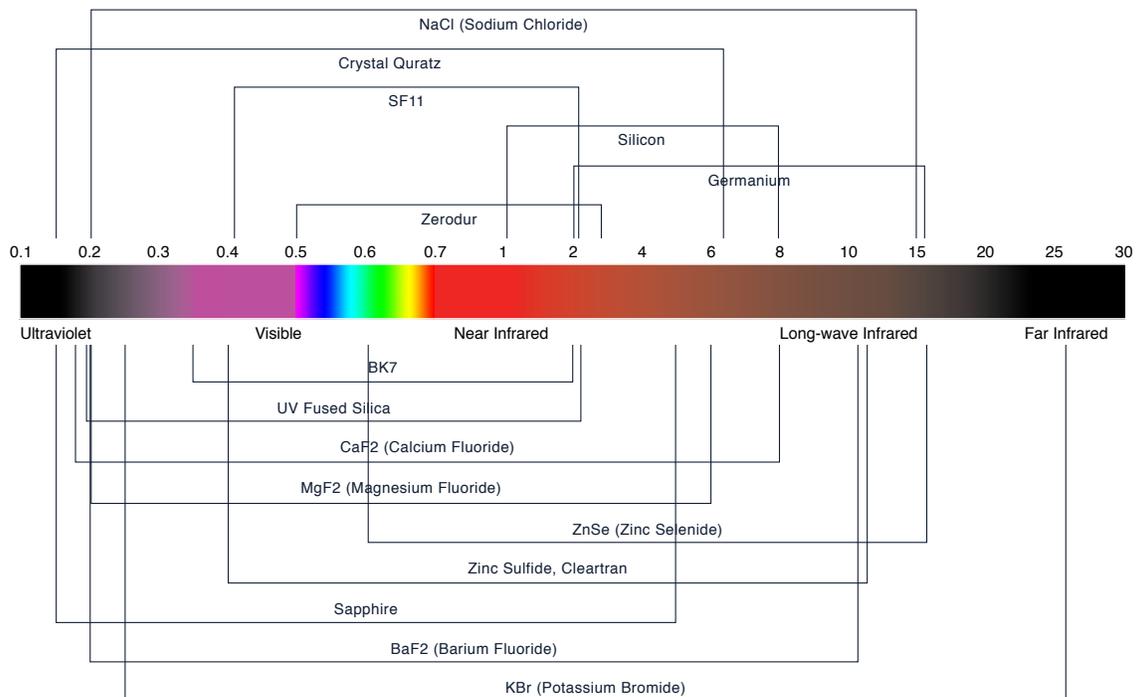
OUR CAPABILITIES



Shanghai Optics offers **advanced precision design in the range of UV to visible and near infrared to far infrared custom lenses**. Shanghai Optics Inc.'s senior optical designers and engineers are competent to provide customers the ultimate in optical design with the vast majority of different applications.

We specialize in **prototyping** from optical, mechanical and optoelectronics to **mass production** of optical manufacturing, coating and precision assembly. Our company has a complete set of optical processing equipment, the traditional low speed and high speed polishing equipment, milling machine, state of the art coating chambers. Shanghai Optics has a team of **20 engineers** which includes optical, mechanical, coating, electrical and system engineering.

As of today, SO optical designers and engineers have provided solutions for **more than 200 optoelectronic devices**, test and measurement, research institutes and customers of civil applications with core optical systems across medical, defense, manufacturing, life sciences and research, and other areas.



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