



## CUSTOM LENS DESIGN & LENS ASSEMBLIES

Hyperion Optics specializes in optical system design, prototyping, and OEM lens assemblies. From bioscience, entertainment, to machine vision, our engineering experts define & craft the optimal imaging/ sensing systems to meet unique application needs across the industries.

Our clients not only rely on us for quality components, but also to deliver a complete product incorporating optical, mechanical, and electronic subsystems. Our lens assemblies range from microscope objective lenses, expanders, telescopic lens, anamorphic lens, to SWIR/ MWIR/ LWIR lenses.

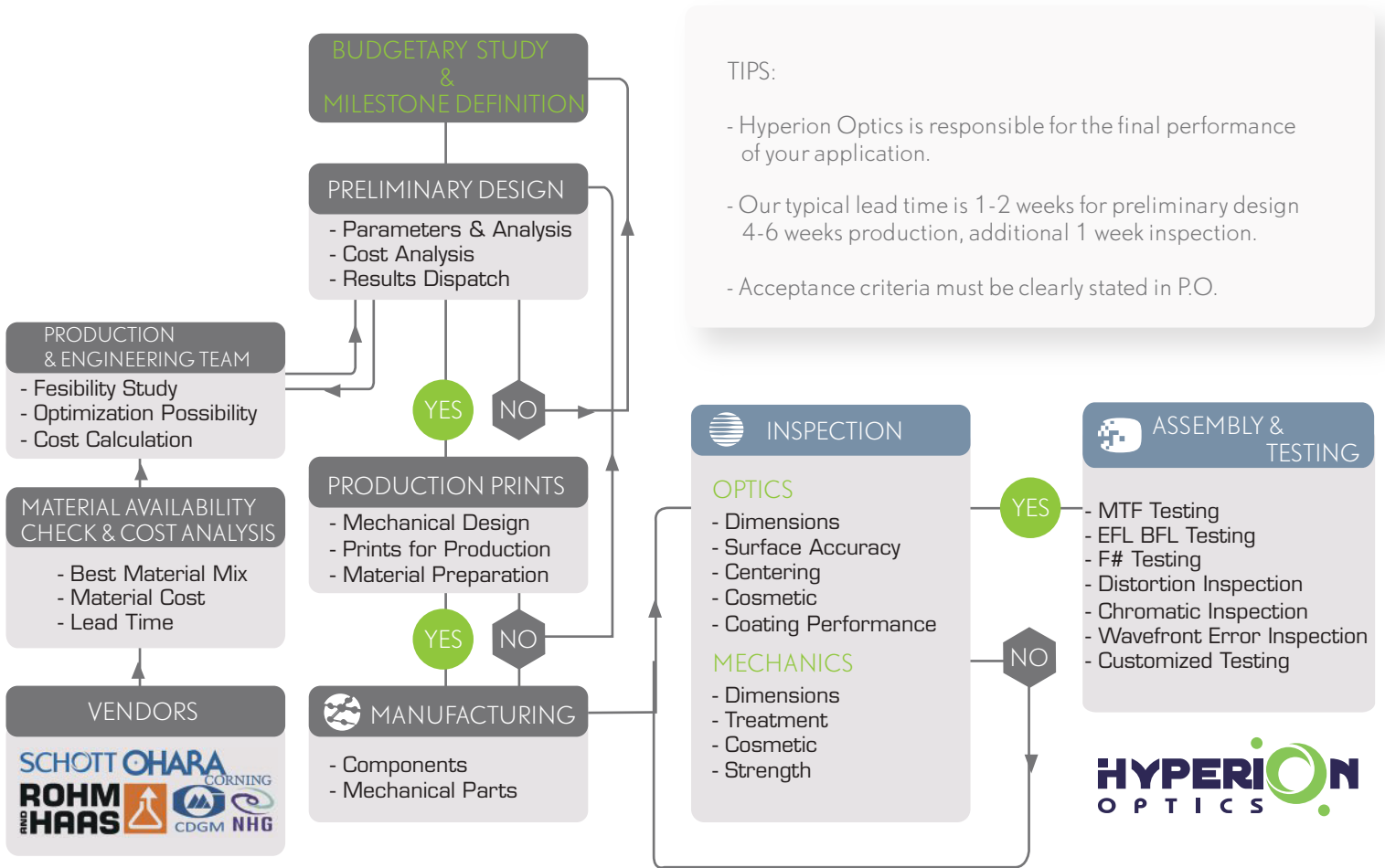


Fig.1 An overview of our custom lens assembly workflow

As a full-service provider, Hyperion eliminates component-level performance issues and waste caused by over-specification. Our production team and optical engineers collaborate to fine-tune manufacturing & assembly tolerances, improving optical outcome and yield.

Our engineering team consists of 15 engineering experts in optics, mechanical, and electrical fields; along with a team of experienced production and assembly staff, we consistently convert world-class system designs into high-quality products.



## Custom Lens Design & Engineering Services:

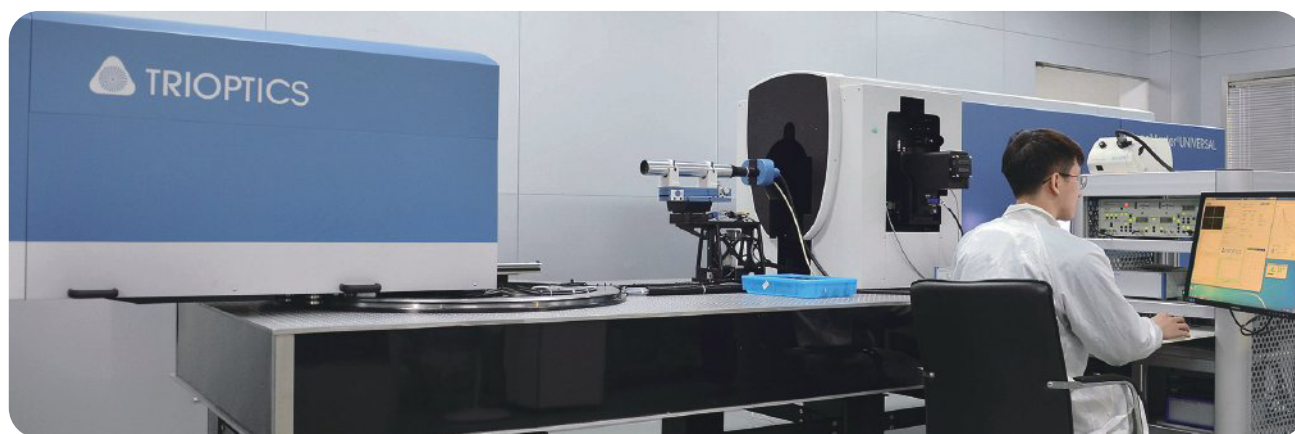
- ♦ **Optical + Optomechanical Design:** We offer design review for your concept feasibility study, including MTF simulation & pragmatic suggestions.
- ♦ **Design Optimization:** We optimize on an existing lens design to improve performance and production yield.
- ♦ **Material Recommendation:** Supported by a strong network of major glass vendors, we always come up with the most cost-effective and reliable material mix for your lens system.
- ♦ **Tolerance Analyses:** Customized simulations and analyses are available upon request.
- ♦ **Bespoke Inspection:** We work with you to develop the most suitable inspection methods to meet unique acceptance criteria & application challenges.
- ♦ **ISO 9001:2015 Quality Control:** A dedicated QA team oversees production, assembly, all the way to final inspection.



We help our partners across the industries build market-disrupting technologies.

## Our Portfolio Includes:

- ♦ Illumination Design
- ♦ Reflectors and Collimators Including LED
- ♦ Microscope Objectives
- ♦ Zoom Lenses
- ♦ Metrology Systems
- ♦ Laser Marking Systems
- ♦ Endoscopes
- ♦ Confocal Imaging
- ♦ Image Processing
- ♦ Thermal Imaging Scopes
- ♦ IR Systems
- ♦ Robotics/ Machine Vision
- ♦ Motion Capture
- ♦ Distance Measurement
- ♦ Bar Code Readers



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