ABOUT HYPERION

Hyperion Optics has a rich history in optical engineering and manufacturing of high-precision lens assemblies.

Established in 2008, Hyperion has grown into a team of 50, comprised of the industry's top-tier optical & mechanical engineers, assembly technicians, production staff, and quality management.

In the past 5 years, we have supported numerous laboratories in designing and producing custom, high N.A. objective lenses that have expanded their field of quantum research.

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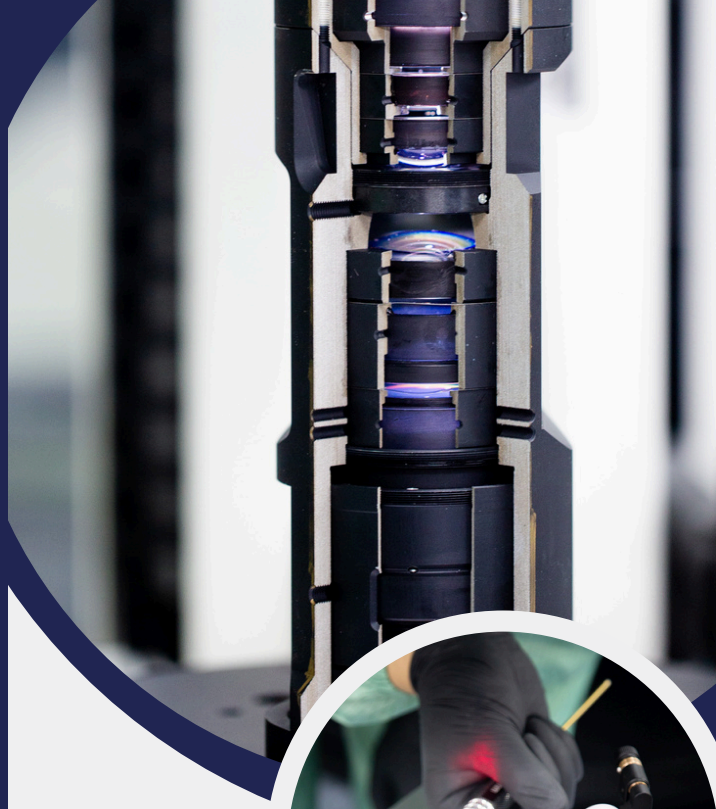
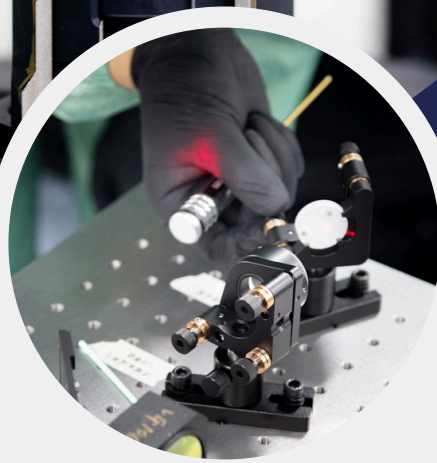




Optics Engineered for Quantum Resolution

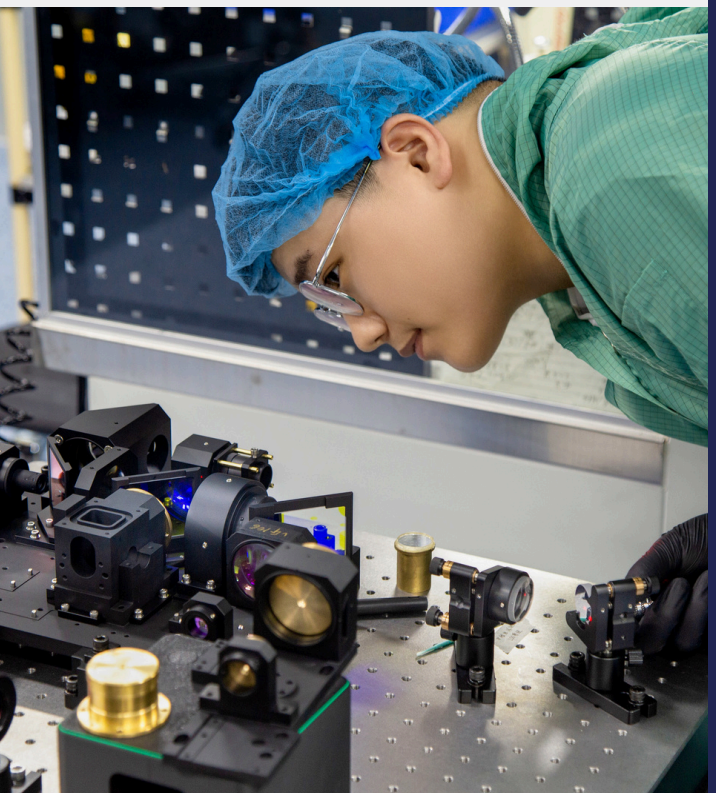
HYPERION OPTICS

ENHANCED QUANTUM RESOLUTION

Hyperion specializes in balancing the lens's mass with the numerical aperture to create high N.A. diffraction-limited objective lenses.

Through tolerance distribution on the component level and active alignment assembly, we can maximize your quantum resolution:

- 2-5μm decenter correction per surface
- 20μm real-time air gap correction between each element



QUANTUM- GRADE MECHNICAL PRECISION

We utilize conventional anodization and a unique blackening process called Micro-Arc Oxidation (“MAO”), which effectively minimizes stray light reflections from mechanical elements in the system, thereby improving the reception of optical signals.

Critical mechanical elements can reach 5um machining accuracy, guaranteeing precision for quantum applications.

ULTRAVIOLET QUANTUM PRECISION

Our production expertise in high-transmittance optical materials in the UV range opens up new opportunities in extended wavelengths.

- **Materials:** Quartz, CaF2
- **Surface Quality:** up to 20/10 after coating
- **Accuracy:** Power/Irr. 3 (0.2) Fringes
- **Reflectance Decenter:** 30 arc seconds

QUANT METROLOGY

Hyperion is equipped with comprehensive metrology, including TriOptics® HR and Image Science systems to obtain modulation transfer function measurements for different FOVs @different wavelengths.