

Sponsored Editorial

# Optikos enables leading-edge technologies with expert optical design and testing



*Throughout our three-and-a-half decades of optical product design and discovery, Optikos innovations have been far-reaching. And you'll find us in some expected places...*

## Optical performance quality in virtual reality creates extraordinary experiences

Optikos has a long history designing virtual and augmented reality optics and metrology equipment, including an early patent for a Video Headset designed for maximum physical comfort of the headset and minimal eye strain, with advanced surround sound and customization options for the user.

Our work with clients—and ongoing research and development in VR/AR—reinforce the role that optics and testing play in differentiating the experience offered among the head-mounted displays currently on the market.

## Accurate camera systems drive safety in automotive industry

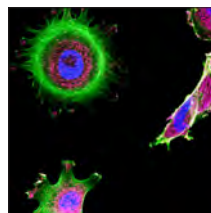


As new technologies emerge, stricter and more comprehensive regulations for safety and image quality

are being issued by organizations such as the (US) National Highway Traffic Safety Administration (NHTSA), United Nations (UN Regulation No.46), and Autonomous Vehicle Safety Regulation World Congress. Many features now offered as vehicle options will become required life-saving technologies on new vehicles.

Optikos brings a strong track record of creative optical engineering to Camera Monitoring Systems that rely on strict measurement and characterization of image capture, processing and display to ensure safety. Examples include testing wide-field lenses and cameras in a production environment; custom systems that assess the effects of windshields on the performance of forward-looking cameras; and use of LIDAR in self-driving vehicles.

## Improving patient outcomes with optically-based solutions in medical devices and diagnostics



Leading-edge client medical applications with Optikos-enabling technologies range from fluorescence-based diagnostic and cell

imaging systems to gene sequencing, dose measurement, minimally-invasive surgery and more.

Optikos also assists in bringing new devices to market, including navigating strict regulations such as FDA 510(k) submissions, clinical trials, and technological challenges associated with product prototyping and production manufacturing.

## Exact quality and performance requirements in aerospace and defense applications

Optics in imaging, remote sensing, weapons and communications are common in modern defense systems.

Optikos OpTest® and I-SITE™ metrology

systems test night vision, thermal imaging, heads-up displays and targeting systems—including automated testing of targeting sensor systems in a production line with challenging optical requirements.



Solutions include airborne, space, and ground-based sensor systems, heads-up displays, 3-D visualization, hyperspectral imaging

and millimeter wave testing as well as competitive costing exercises to identify capable suppliers and areas for product cost reductions.

## Flexible and scalable resource for your engineering requirements

The diverse nature of our clients and their applications requires our engineers to have the ability to be able to adapt to the culture of each organization and quickly join a project at any phase of the development cycle—from conceptual work to improving product performance to moving products to market.

### Optikos® Metrology and Design

Optikos provides metrology products that assess and assure image quality; and we offer engineering services that provide a flexible and scalable resource for your design and manufacturing requirements.

Our in-house **IQ Lab™ Services** are available for a wide range of optical testing needs. Visit [optikos.com/optical-testing](http://optikos.com/optical-testing).

To learn more about Optikos metrology and design for leading-edge applications, please call us at +1 617-354-7557

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