

HAWKSIGHT



SOLUTION BRIEF



**HAWKSIGHT™ OPTICS CREATE
OVERMATCH CAPABILITY FOR
NIGHT VISION**



ENHANCED FOV

HAWKSIGHT LGRIN NIGHT VISION BENEFITS

- **Enhanced Overmatch Capability** LGRIN enhances field of view (FOV) and visual range, accelerating target identification and optimizing operational efficiency by minimizing weight and maximizing operational tempo.
- **Optimized Situational Awareness** HawkSight ensures superior image clarity, enhancing “true visibility” to the lens edge for improved performance.
- **Alleviate Soldier Burden LGRIN Mitigates** neck torque through lighter-weight optics, balanced designs, and wider FOV, reducing the need for extensive neck movement.
- **Maximize Warfighter Safety** HawkSight optics prioritize safety by utilizing recyclable materials, replacing hazardous substances in manufacturing for a more sustainable and secure solution.
- **U.S. Crafted Precision** Optics meticulously engineered and manufactured in the United States, guaranteeing top-notch quality and reliability.
- **American Innovation** Peak products and technology are safeguarded by over 20 U.S. and global patents, ensuring innovation and intellectual property protection.

PEAK HAWKSIGHT OPTICS ENABLE WARFIGHTERS TO **DOMINATE THE DARK**

Elevate Awareness, Enhance Tempo, and Level-Up Lethality

Peak comprehends the unique demands of every mission, acknowledging the imperative to enhance gear for heightened situational awareness, increased effectiveness, and improved operational tempo to ensure survival. We are ushering in a new era of optics that augment conventional glass-based optics with our advanced LGRIN (Layered Gradient Refractive Index) optic technology - offering lighter, higher-performing, and safer solutions, thereby revolutionizing the survivability of warfighters.

6 Ways HawkSight Helps Night Vision

Introducing the next generation of optics, powered by two groundbreaking technologies: LGRIN optical design and advanced metamaterials, which replace conventional glass. Peak’s NanoPlex™ metamaterials, integral to this innovation, overcome the limitations of glass, thereby enhancing the nighttime performance of warfighters. Our HawkSight optics provide warfighters with a significant advantage, marking a paradigm shift in night vision technology from glass optics to hybrid optics with LGRIN. LGRIN optics are not only thinner, lighter, and more compact than traditional glass optics but also offer superior performance. This breakthrough enables Peak solutions to reduce the burden on warfighters and optimize mission performance, leading to enhancements in the following areas:

- 1 | **Optimize Situational Awareness** - LGRIN lens enables us to design for a wider field of view improving environmental understanding.
- 2 | **Increase Operational Tempo** - LGRIN optics are up to 30% lighter than comparable glass optics, reducing the weight of night vision devices for increased agility.
- 3 | **Faster Target Identification** - LGRIN optics deliver exceptional clarity, enabling quicker and more precise target identification by warfighters at extended distances.
- 4 | **Maximize Battlefield Lethality** - Optimize target identification in challenging conditions, such as degraded light visibility due to smoke, fog, debris, etc.
- 5 | **Advanced Survivability** - React faster with lightweight optics, minimizing head movements and reducing target acquisition times.
- 6 | **Ease Soldier Burden** - LGRIN reduces optics weight, lessening neck torque, minimizing eye strain, and lowering overall kit weight.



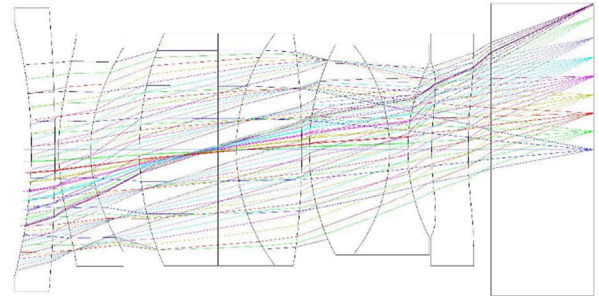
HAWKSIGHT™



Glass Optics - 3 Major Challenges

Glass optics, rooted in century-old stagnation, lag behind adversarial nations. LGRIN addresses three core challenges, signaling a significant technological shift.

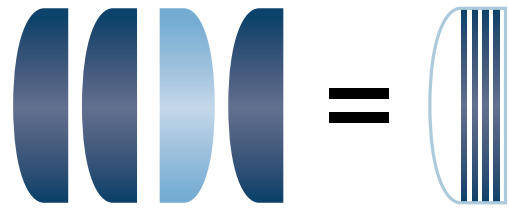
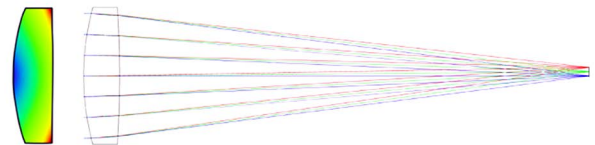
- 1 | **Color and Clarity Aberrations** - Glass lenses commonly exhibit color aberration, where various light wavelengths fail to converge at a single point post-lens passage.
- 2 | **Complex Multi-Len Systems** - Convoluted multi-lens configurations to correct color aberrations and attain sharp, clear image.
- 3 | **Heavy Glass Lens Designs** - Glass is frequently 50% heavier than modern metamaterial alternatives.



HawkSight LGRIN Creates Overmatch, Optimizes Clarity and Target Identification

The optics industry is undergoing disruption with the emergence of LGRIN optics lenses, addressing a key challenge in glass optics that hinders innovation in the night vision market.

- 1 | **Enhance Clarity with NanoPlex™ Metamaterial** - LGRIN optics utilize NanoPlex™, a multi-layered refractive index design that minimizes color aberration more effectively than only glass lenses, ensuring superior color clarity.
- 2 | **Streamlined Optics Designs** - LGRIN empowers designers to reduce the number of glass lenses by including LGRIN lenses in various applications.
- 3 | **Lighter Weight Night Vision** - HawkSight optics weigh up to 50% less than comparable glass optics of the same size. Our LGRIN technology also allows for the consolidation and reduction of heavy glass lenses in systems.



Four Glass Lenses

Consolidated LGRIN Lenses



OPTIMIZE AI INNOVATION WITH LGRIN

Lighter Weight Night Vision

- Achieve expanded field of view, tailored to specific applications
- Enhance situational awareness
- Broadens stereoscopic "Sweet Spot"



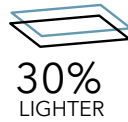
Target Identification

- Optimal target identification over distance
- Enhances low-light battlefield clarity



Lightweight Optics

- Improves operational tempo
- 30% lighter than glass lenses
- 2x thinner reducing optical weight



Optics Performance

- Enhanced color, clarity, & depth perception
- Improved visibility to the edge of the lens
- Suitable for soldiers with varying visual acuity



Ergonomic Design

- Reduces neck torque and eye strain
- Optimizes eye box performance
- Streamlined to reduce snag factors



Warfighter Safety

- Reduces use of hazardous substances
- LGRIN improves warfighter performance



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Peak Nano Optics, LLC
8190 Roll & Hold Parkway
Macedonia, OH 44056

pno@peaknano.com
www.peaknano.com
+1 216.264.4818

