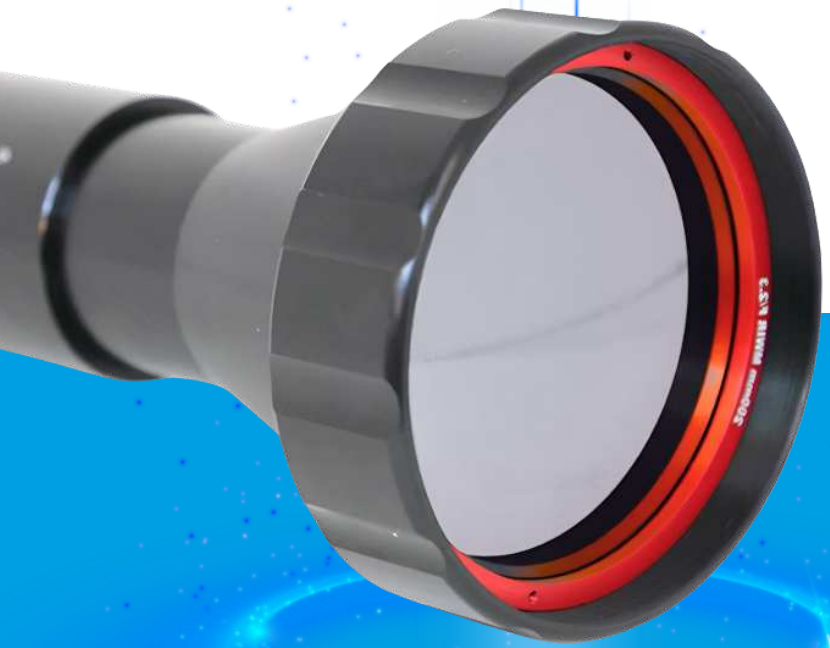
- **Supply Chain Resilience**
  No Germanium or chalcogenide materials
- **Proven Performance**
  Built on the established Ruby™ platform
- **System Compatibility**
  Designed for standard MWIR architectures
- **Mission-Ready Reliability**
  Optimized for demanding field conditions



GARNET

A STINGRAY MWIR SERIES

Germanium-Free Optics for Supply-Resilient Imaging

Built for mission-critical environments, the Garnet™ series delivers high-performance MWIR imaging without reliance on constrained materials. This series eliminates Germanium while maintaining the optical performance required for defense and surveillance systems. Built on the proven Ruby™ platform, it offers a more resilient path forward for long-term system design.

Build a more resilient MWIR system with Garnet™

Parameter	Value
Wavelength	3 - 5 µm
f/#	f/2.3
Image diameter	21 mm
Mount	Standard IR bayonet
Focus	Manual with lock
Focal lengths	13, 25, 50, 100, 200 mm
Cold shield height	1"

Core Features

- Achromatic performance across 3 - 5 µm
- Compatibility with f/2.3, f/2.5, and f/4.0 systems
- Supports up to 21 mm image formats
- Manual focus with lock
- Standard IR bayonet mount

Applications

- Intelligence, surveillance, and reconnaissance (ISR)
- Border security
- Target detection and tracking
- Defense and security platforms

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