HELIOS

THE WARFIGHTER WHO SEES BEST WINS!

L-3 Integrated Optical Systems’ (IOS) High-performance Engagement Lightweight Optical System (HELIOS) allows warfighters to detect, identify, and engage threats with 360-degree situational awareness while remaining under armored protection at all times.

HELIOS is scaleable and upgradeable to accommodate specific customer operations making it a low-cost high value asset. The standard system acquires and engages targets at more than 3,000 meters. With configurable components including an eyesafe laser rangefinder, cooled or un-cooled thermal camera, day camera (intensified or low-light level), and an illuminator, pointer or designator.

HELIOS’ optional remote operator console including display and joystick are configurable to vehicle or craft requirements. Intuitive design allows for ease of training and operation.
HIGH-PERFORMANCE ENGAGEMENT LIGHTWEIGHT INTEGRATED OPTICAL SYSTEM

FEATURES/BENEFITS
The multispectral sensors produce outstanding imagery in day, low light, and total darkness.

• **High Performance** – Long range identification, helping the warfighter to observe, directly engage, and/or coordinate indirect fire.

• **Outstanding Situational Awareness** – Extra-wide field-of-view and 360-degree field-of-regard ideal for urban and close-quarter missions.

• **Low Initial and Lifecycle Cost** – Low maintenance and built-in test functions reduce supportability costs and improve system readiness.

• **Lightweight and Low Profile** – Compact, improving its survivability and reducing vehicle silhouette.

• **Hunter/Killer Capability** – Seamless target handoff of the weapon system from the Crew Commander (hunter) to the Gunner (killer).

TECHNOLOGY

• **Low Noise Un-cooled LWIR Thermal Camera** – Best-in-class target acquisition capability even through dust and battlefield obscurants

• **High Performance Color EMCCD Camera** – Full-color day and low light level imagery in a highly reliable single camera

• **HD Format Video Outputs** – Greater resolution for determining the disposition and nature of threat

• **Scalable, Open Architecture** – Modular, configurable system that permits optional inclusion or upgrade to include other electro-optic devices – laser illuminators and laser markers, and laser rangefinders

• **Ease of Installation and Upgradeability** – Two LRUs simplifies the logistics of upgrade, maintenance, and repair