

The HELIOS Solution

High Energy Laser with Integrated Optical-dazzler and Surveillance

Upgrade Flexibility

- Increased High Energy Laser Power Levels
- Additional Combat System Integration
- Equipment Commonality

More than a Laser, HELIOS is an Integrated Weapon System

Multi-Mission Capabilities

- 60kW+ High Energy Laser for Counter Fast Inshore Attack Craft (FIAC) and Counter UAS
- Long Range Intelligence, Surveillance, Reconnaissance (ISR)
- Counter UAS-mounted ISR (C-ISR) Dazzler

Ship & Combat System Integration

- Marinized Laser Weapon System
- 100% Structural Integration
- DDG Flight IIA Aegis Combat System Integration



60+ kW High Energy Laser (HEL)
Spectral Beam Combined Fiber Laser (SBCFL)



Thermal & Environmental Management Subsystem
HEL Refrigerant Cooling, Ship's Chilled Water & Clean Dry Air Distribution



Beam Control Subsystem
Beam Conditioning & Control, Target Acquisition



System Control
Diagnostics, Fire Control



Beam Director
Beam & Sensor Pointing, Marinized



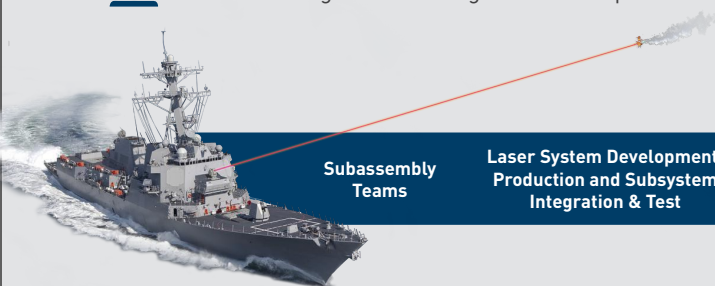
Power Module
Continuous Ship's Power Conversion



ISR & Optical Trackers
Proven Algorithms & High Powered Optics



C-ISR Subsystem
Integrated Dazzler



TODAY

Subassembly Teams

Laser System Development, Production and Subsystem Integration & Test

System Integration & Test

Land-Based Testing

Shipyard Installation

At Sea

