



# FIRESTRIKE™

A RUGGEDIZED, HIGH-ENERGY LASER FOR ALL SERVICES

*Directed Energy Production Facility, Redondo Beach, California*

Northrop Grumman has been developing and demonstrating high-energy laser systems for more than 30 years. In January 2007, the company opened a specialized facility exclusively for system integration and production of high-energy laser systems for military uses – the first of its kind by private industry in the United States.

Located at the Space Technology sector's Space Park campus, the Directed Energy Production Facility is specifically designed for the production of high-energy, solid-state lasers.

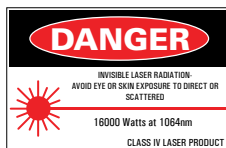
**NORTHROP GRUMMAN**



For FIRESTRIKE™ laser technical and sales information, please contact:

**Jim Montano**  
310.812.9048  
james.montano@ngc.com

**Dan Wildt**  
310.813.5982  
dan.wildt@ngc.com



*Designed for the Warfighter*

Game-Changing Capabilities for Joint Defense

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*Northrop Grumman's FIRESTRIKE™ laser is available for purchase and production to serve warfighter needs and deliver new military utility to the battlefield*

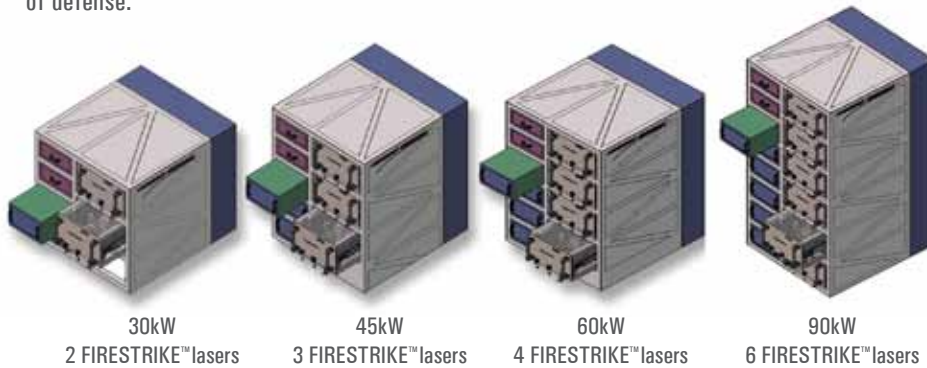
# FIRESTRIKE™

## Introducing FIRESTRIKE™

This breakthrough 15kW solid-state laser, based on Northrop Grumman's proven Joint High Power Solid-State Laser (JHPSSL) architecture, offers the warfighter high-energy lasers designed for the battlefield. After years of program success with JHPSSL, Vesta, and Vesta II, Northrop Grumman is ready to deliver on the promise of defense at the speed-of-light with this product.

The FIRESTRIKE™ laser delivers proven, rugged electric laser technology at power levels, beam quality and runtime of significant military utility. The packaging design of the FIRESTRIKE™ Line Replaceable Unit (LRU) system allows for scaling laser weapons to desired power levels for specific warfighting applications and platforms. This compact system is designed for cost-effective reproduction, sustainability and maintenance.

The FIRESTRIKE™ laser will form the backbone of future laser weapon systems. Combined with advanced EO/IR sensors, FIRESTRIKE™ LRUs and their subsystems can provide the warfighter with active defense, offensive precision strike, and enhanced situational awareness capabilities – all in the same weapons system. With low cost per shot, a deep magazine, and precision accuracy to minimize collateral damage, FIRESTRIKE™ high-energy lasers will change the tactical and operational levels of defense.



*The FIRESTRIKE™ laser LRU system is uniquely designed for scaling high-energy lasers to desired power levels. Each 15kW LRU can be combined with multiple units to fit specific warfighting missions and/or platforms, as pictured above. The result is a flexible "game-changing" military capability with tailored lethality.*

F	E	A	T	U	R	E	S
Power:	15kW laser						
Beam Quality:	Nominally 1.5 times the diffraction limit (vertical beam quality)						
Size:	Laser head: 23" x 40" x 12" [width, depth, height] Current source: 9" x 13" x 30"						
Runtime:	Continuous, as long as power and coolant are provided						
Instant Turn-on:	Zero to full power in less than ½ second						
Safety:	Remote operation, customer interlock access, internal safety sensors						
Control:	Common Command and Control (C2) systems and Ethernet interfaces						
Low Power Setting:	Provides nominally 100 watt alignment beam						
Weight:	400 lbs per LRU						
Ruggedization:	Hardened LRUs with compact SSL technology engineered for mobility and field toughness						

