

THE VALUE OF PERFORMANCE.

**NORTHROP GRUMMAN**

## CIRCM

*5th Generation IRCM Technology for Unparalleled Warfighter Protection*

*“Always reliable. Always dependable”*

**O**ur CIRCM solution utilizes the most advanced laser and pointing technology to protect aircraft against advanced infrared missiles to ensure mission success and bring the aircrew home. This affordable solution interfaces

with existing aircraft survivability equipment and uses open architecture to support future growth. CIRCM is a lightweight, highly reliable system designed to be compatible with rotary, tilt-wing, and small fixed wing aircraft. The system architecture

supports multiple tasks such as laser dazzle for hostile fire suppression. Backed by over a million operational flight hours and proven combat experience, our CIRCM team stands ready to protect the warfighter.

	Demonstrated Benefits	Test History
Pointer/Tracker	<ul style="list-style-type: none"><li>• Low cost</li><li>• High reliability</li><li>• Low mass – suitable for light helicopters</li><li>• Minimal air-stream intrusion</li><li>• Modular design with low build complexity</li><li>• Configured for capability enhancements and spiral upgrades</li></ul>	<ul style="list-style-type: none"><li>• Integrated with CMWS</li><li>• Exceptional performance in reliability testing</li><li>• Successful live fire testing</li><li>• Successful flight testing</li></ul>
Solaris Laser	<ul style="list-style-type: none"><li>• Fast, simultaneous breaklock jamming</li><li>• Power to defeat future threats</li><li>• Reliable solid state sources</li><li>• All-weather, all-altitude operation</li><li>• Field replaceable</li><li>• Dual production facilities</li></ul>	<ul style="list-style-type: none"><li>• Performance over environment</li><li>• End-to-end system testing</li><li>• Reliability testing</li></ul>

## Most Experienced Team in Laser IRCM

Northrop Grumman and its teammate SELEX Galileo are the leading innovators in laser DIRCM. We have installed systems on several hundred aircraft of more than 50 types, including CV-22, CH/MH-53, CH-46 and a host of additional rotary and fixed wing types. We've been protecting warfighters against infrared threats for more than 50 years, with a track record of innovation

and investment in IRCM technologies. Among our team's innovations are the ECLIPSE pointer/tracker by SELEX Galileo and the Solaris laser by Daylight Solutions, the recognized leader of quantum cascade laser (QCL) technology. With our CIRCM solution, high-level protection comes with low risk.

Our team has led the way with core IRCM technologies, including:

- Multiband laser
- Continuous Laser autoboesight
- QCL laser technology
- Battle ready track algorithms
- High resolution camera
- Multi-pointer jamming synchronization

*The low risk approach to high level protection.*



*Eclipse Pointer/Tracker*



*Solaris Laser*



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*Specifications and features subject to change without notice.*

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