

# Is the high beam counter-attack light powered by solar energy



## Overview

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Developed by Lockheed Martin, it can deliver over 60 kilowatts of directed energy — enough to power up to 60 homes. One of its most unusual features is its layered defense approach, enabling both hard and soft kills of hostile threats. More than a Laser, HELIOS is an Integrated Weapon System. A directed-energy weapon (DEW) is a ranged weapon that damages its target with highly focused energy without a solid projectile, including lasers, microwaves, particle beams, and sound beams. Potential applications of this technology include weapons that target personnel, missiles, vehicles, and. However, the E-HEL initiative is expected to be the service's first program of record for this type of technology, according to an Army news release. Many countries, including the U. Installed on USS Preble, HELIOS represents a major shift in naval defence, offering a cost-effective alternative to traditional. In 2024, the U. Navy achieved a significant milestone by successfully testing the High Energy Laser and Integrated Optical Dazzler with Surveillance (HELIOS) system against an airborne target.

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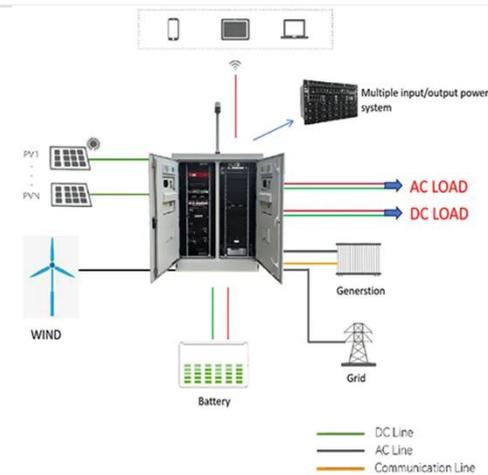
### US Navy successfully tests HELIOS laser weapon. All about it - Firstpost

Despite the promising capabilities of HELIOS, there are several challenges facing laser weapon development including power supply issues as high-energy lasers require significant ...

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### Directed-energy weapon

A directed-energy weapon (DEW) is a ranged weapon that damages its target with highly focused energy without a solid projectile, including lasers, microwaves, particle beams, and sound beams.



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### Science & Tech Spotlight: Directed Energy Weapons , U.S. GAO

Directed energy weapons--such as lasers--use energy fired at the speed of light. These weapons can produce force that ranges from deterrent, to damaging, to destructive. Many countries, ...

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## Army takes another step on path toward producing new drone-killing

High-energy lasers could offer significant advantages over traditional air defense weapons, including faster engagement, lower cost per shot and deeper magazines, experts say.

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## Department of Defense Directed Energy Weapons: Background ...

Directed energy (DE) weapons use concentrated electromagnetic energy, rather than kinetic energy, to combat enemy forces.

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## New High-Energy Lite Beam Laser from Rafael to Neutralize Drone ...

Suitable for light vehicles, LITE BEAM can be deployed across varied operational zones, allowing it to counter a broad range of threats, from drones and rockets to mortar shells.

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## HELIOS\_Infographic\_FINAL

More than a Laser, HELIOS is an Integrated Weapon System. 2020

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## Advancements in U.S. Navy's Directed Energy Weapons: The ...

As the Navy continues to refine these technologies, the integration of directed energy weapons like HELIOS is expected to play a crucial role in future maritime defense strategies, offering ...

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## US Navy's Burke-Class Destroyer Unleashes HELIOS Laser in ...

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## Science & Tech Spotlight: Directed Energy Weapons , U.S. GAO

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## High-Energy Lasers , Raytheon

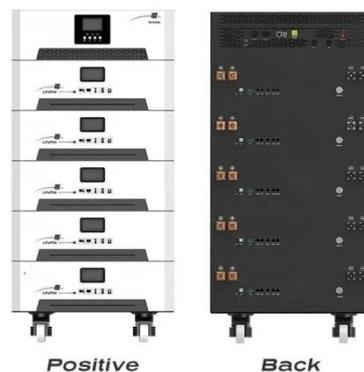
This directed energy technology enables detection of threats, tracking during maneuvers, and positive visual identification to defeat a wide range of threats, including unmanned aerial systems, rockets, ...

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## Directed-energy weapon

Overview  
Operational advantages  
Types  
History  
Modern 21st-century use  
Non-lethal weapon capability  
Notes  
External links

A directed-energy weapon (DEW) is a ranged weapon that damages its target with highly focused energy without a solid projectile, including lasers, microwaves, particle beams, and sound beams. Potential applications of this technology include weapons that target personnel, missiles, vehicles, and optical devices. In the United States, the Pentagon, DARPA, the Air Force Research Laboratory, United States



Army Armament Research Development  
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