

North America Directed Energy Weapons market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Technology (Laser, Microwave, Particle Beam, and Others), Range (Less Than 1 Mile and More Than 1 Mile), Application (Ground, Naval, and Airborne), and Platform (Armored Vehicles, Unmanned Systems, Handheld Systems, Aircraft Systems, Ships and Submarines, and Others)

Market Report | 2022-11-16 | 151 pages | The Insight Partners

AVAILABLE LICENSES:

- Single User Price \$3000.00
- Site Price \$4000.00
- Enterprise Price \$5000.00

Report description:

The directed energy weapons market in North America is expected to grow from US\$ 813.18 million in 2022 to US\$ 2,705.66 million by 2028. It is estimated to grow at a CAGR of 22.2% from 2022 to 2028.

Surging Vendors Focusing on Developing High-Energy DEWs

Armed military forces are increasing their investment in directed energy weapons, including microwave and high-energy laser weapons, as the technology develops. There is a rise in demand for high-energy directed energy weapons, and the investments are surging to billions of dollars every year. High-energy laser weapons are preferred to high-powered microwaves for longer-range requirements. Due to rising geopolitical tensions, there is an increase in the procurement of new high-energy laser weapons by developed and emerging nations. The US military is highly investing in the integration of advanced weapons systems such as high-energy laser weapons mounted on vehicles, which is driving the market. For instance, the US military has developed high-energy directed weapons in 2019 with pinpoint accuracy, making high-power lasers one of the most promising options. In 2019, the US Air Force deployed its first High Energy Laser Weapon System (HELWS) developed by Raytheon Intelligence & Space. Moreover, Lockheed Martin provided a high energy laser (HEL) to the US Navy for installation on its warships. Further, in August 2022, the U.S. Navy secured delivery of a high-energy laser weapon called HELIOS from defense company Lockheed Martin. The adoption of high-energy, high-intensity laser weapons onto the ships and combat systems has provided the U.S Navy

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

with exceptional directed energy capabilities. High-energy lasers (HEL), which produce photons, and high-power microwaves (HPM), which generate radiofrequency waves, are being installed on Naval ships. The sinking of the Russian naval flagship by a Ukrainian anti-ship missile in April 2022 in the ongoing Russia-Ukraine War has prompted the US Navy to increase its efforts toward directed energy defenses on warships. Moreover, in January 2022, the U.S. Navy's Naval Surface Warfare Center, Dahlgren Division, or NSWCDD, established a new department for developing and researching HPM directed energy weapons.

Market Overview

The North American directed energy weapons market, based on country, is segmented into the US, Canada, and Mexico. The growing threat of terrorist attacks, biological attacks, chemical attacks, and nuclear materials so that civilian lives and the national security of the region can be preserved. Over the years, according to the data published by Stockholm International Peace Research Institute (SIPRI), the US recorded military expenses of US\$ 827.12 billion in 2021, which was US\$ 801.68 billion in 2020. The increase in military expenditure by North American countries influences the growth of the North American directed energy weapons market. Moreover, a surge in military spending by developed and emerging nations due to heightened geopolitical tensions is accelerating the procurement of new air, land, and sea platforms. The military is investing in the integration of advanced weapons systems such as directed energy weapons on board the vehicle is driving the directed energy weapons market growth.

North America Directed Energy Weapons Market Revenue and Forecast to 2028 (US\$ Million)

North America Directed Energy Weapons Market Segmentation

The North America directed energy weapons market is segmented into platform, application, Range, Technology, and country.

Based on platform, the market is segmented into armored vehicles, unmanned systems, handheld systems, aircraft systems, ships and submarines, and others. The armored vehicles segment registered the largest market share in 2022. Based on range, the market is categorized into less than 1 mile and more than 1 mile. The less than 1 mile segment held the largest market share in 2022. Based on technology, the North America directed energy weapons market is segmented into laser, microwave, particle beam, and others. The laser segment held the largest market share in 2022. Based on application, the North America directed energy weapons market is segmented into ground, naval, and airborne. The ground segment held the largest market share in 2022. Based on country, the market is segmented into the US, Canada, and Mexico. The US dominated the market share in 2022. Lockheed Martin Corporation; Thales Group; L3Harris Technologies, Inc.; Elbit Systems Ltd.; Raytheon Technologies Corporation; BAE Systems; Honeywell International Inc.; Rheinmetall AG; Moog Inc.; and Boeing are the leading companies operating in the directed energy weapons market in the region.

Table of Contents:

TABLE OF CONTENTS

- 1. Introduction
 - 1.1 Scope of the Study
 - 1.2 The Insight Partners Research Report Guidance
 - 1.3 Market Segmentation
- 2. Key Takeaways
- 3. Research Methodology
 - 3.1 Coverage
 - 3.2 Secondary Research
 - 3.3 Primary Research

- 4. North America Directed Energy Weapons Market Landscape
 - 4.1 Market Overview
 - 4.2 Porter's Five Force Analysis
 - 4.2.1 Bargaining Power of Buyers
 - 4.2.2 Bargaining Power of Suppliers
 - 4.2.3 Threat to New Entrants
 - 4.2.4 Threat to Substitutes
 - 4.2.5 Competitive Rivalry
 - 4.3 Ecosystem Analysis
 - 4.4 Expert Opinion
 - 4.5 Impact of Russia-Ukraine War on the Defense Industry
- 5. North America Directed Energy Weapons Market - Key Market Dynamics
 - 5.1 Market Drivers
 - 5.1.1 Raising Adoption of Directed-Energy Weapons as Countermeasures
 - 5.1.2 Surging Focus on Developing High-Energy DEWs
 - 5.2 Market Restraints
 - 5.2.1 Critical Health Consequences of Using Directed Energy Weapons
 - 5.3 Market Opportunities
 - 5.3.1 Surging Military Research & Development Programs for Directed Energy Weapons
 - 5.4 Future Trends
 - 5.4.1 Raising Focus on Development of Microwave Directed Energy Weapons
 - 5.5 Impact Analysis of Drivers and Restraints
- 6. North America Directed Energy Weapons - Market Analysis
 - 6.1 North America Directed Energy Weapons Market Overview
 - 6.2 North America Directed Energy Weapons Market Forecast and Analysis
- 7. North America Directed Energy Weapons Market Analysis - by Technology
 - 7.1 Overview
 - 7.2 North America Directed Energy Weapons Market, by Technology
 - 7.3 Laser
 - 7.3.1 Overview
 - 7.3.2 Laser: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 7.3.2.1 High Energy
 - 7.3.2.1.1 High Energy: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 7.3.2.2 Low Energy
 - 7.3.2.2.1 Low Energy: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 7.4 Microwave
 - 7.4.1 Overview
 - 7.4.2 Microwave: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 7.5 Particle Beam
 - 7.5.1 Overview
 - 7.5.2 Particle Beam: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 7.6 Others
 - 7.6.1 Overview
 - 7.6.2 Others: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
- 8. North America Directed Energy Weapons Market Analysis - by Range
 - 8.1 Overview
 - 8.2 North America Directed Energy Weapons Market, by Range

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 8.3 Less than 1 mile
 - 8.3.1 Overview
 - 8.3.2 Less than 1 mile: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
- 8.4 More than 1 mile
 - 8.4.1 Overview
 - 8.4.2 More than 1 mile: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
- 9. North America Directed Energy Weapons Market Analysis - by Application
 - 9.1 Overview
 - 9.2 North America Directed Energy Weapons Market, by Application
 - 9.3 Ground
 - 9.3.1 Overview
 - 9.3.2 Ground: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 9.4 Naval
 - 9.4.1 Overview
 - 9.4.2 Naval: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 9.5 Airborne
 - 9.5.1 Overview
 - 9.5.2 Airborne: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
- 10. North America Directed Energy Weapons Market Analysis - by Platform
 - 10.1 Overview
 - 10.2 North America Directed Energy Weapons Market, by Range
 - 10.3 Armored Vehicles
 - 10.3.1 Overview
 - 10.3.2 Armored Vehicles: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 10.4 Unmanned Systems
 - 10.4.1 Overview
 - 10.4.2 Unmanned Systems: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 10.5 Handheld Systems
 - 10.5.1 Overview
 - 10.5.2 Handheld Systems: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 10.6 Aircraft Systems
 - 10.6.1 Overview
 - 10.6.2 Aircraft Systems: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 10.7 Ships and Submarines
 - 10.7.1 Overview
 - 10.7.2 Ships and Submarines: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 10.8 Others
 - 10.8.1 Overview
 - 10.8.2 Others: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
- 11. North America Directed Energy Weapons Market - Country Analysis
 - 11.1 Overview
 - 11.1.1 North America: Directed Energy Weapons Market, by Key Country
 - 11.1.1.1 US: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 11.1.1.1.1 US: Directed Energy Weapons Market, by Platforms
 - 11.1.1.1.2 US: Directed Energy Weapons Market, by Range
 - 11.1.1.1.3 US: Directed Energy Weapons Market, by Technology
 - 11.1.1.1.3.1 US: Directed Energy Weapons Market, by Laser

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 11.1.1.1.4 US: Directed Energy Weapons Market, by Application
- 11.1.1.2 Canada: Directed Energy Weapons Market - Revenue and Forecast to 2028 (US\$ Million)
 - 11.1.1.2.1 Canada: Directed Energy Weapons Market, by Platforms
 - 11.1.1.2.2 Canada: Directed Energy Weapons Market, by Range
 - 11.1.1.2.3 Canada: Directed Energy Weapons Market, by Technology
 - 11.1.1.2.3.1 Canada: Directed Energy Weapons Market, by Laser
 - 11.1.1.2.4 Canada: Directed Energy Weapons Market, by Application
- 11.1.1.3 Mexico: Directed Energy Weapons market - Revenue and Forecast to 2028 (US\$ Million)
 - 11.1.1.3.1 Mexico: Directed Energy Weapons Market, by Platforms
 - 11.1.1.3.2 Mexico: Directed Energy Weapons Market, by Range
 - 11.1.1.3.3 Mexico: Directed Energy Weapons Market, by Technology
 - 11.1.1.3.3.1 Mexico: Directed Energy Weapons Market, by Laser
 - 11.1.1.3.4 Mexico: Directed Energy Weapons Market, by Application
- 12. Industry Landscape
 - 12.1 Overview
 - 12.2 Market Initiative
 - 12.3 Merger and Acquisition
 - 12.4 New Development
- 13. Company Profiles
 - 13.1 Lockheed Martin Corporation
 - 13.1.1 Key Facts
 - 13.1.2 Business Description
 - 13.1.3 Products and Services
 - 13.1.4 Financial Overview
 - 13.1.5 SWOT Analysis
 - 13.1.6 Key Developments
 - 13.2 Thales Group
 - 13.2.1 Key Facts
 - 13.2.2 Business Description
 - 13.2.3 Products and Services
 - 13.2.4 Financial Overview
 - 13.2.5 SWOT Analysis
 - 13.2.6 Key Developments
 - 13.3 L3Harris Technologies, Inc.
 - 13.3.1 Key Facts
 - 13.3.2 Business Description
 - 13.3.3 Products and Services
 - 13.3.4 Financial Overview
 - 13.3.5 SWOT Analysis
 - 13.3.6 Key Developments
 - 13.4 Elbit Systems Ltd.
 - 13.4.1 Key Facts
 - 13.4.2 Business Description
 - 13.4.3 Products and Services
 - 13.4.4 Financial Overview
 - 13.4.5 SWOT Analysis
 - 13.4.6 Key Developments

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

13.5 Raytheon Technologies Corporation

13.5.1 Key Facts

13.5.2 Business Description

13.5.3 Products and Services

13.5.4 Financial Overview

13.5.5 SWOT Analysis

13.5.6 Key Developments

13.6 BAE Systems

13.6.1 Key Facts

13.6.2 Business Description

13.6.3 Products and Services

13.6.4 Financial Overview

13.6.5 SWOT Analysis

13.6.6 Key Developments

13.7 Honeywell International Inc.

13.7.1 Key Facts

13.7.2 Business Description

13.7.3 Products and Services

13.7.4 Financial Overview

13.7.5 SWOT Analysis

13.7.6 Key Developments

13.8 Rheinmetall AG

13.8.1 Key Facts

13.8.2 Business Description

13.8.3 Products and Services

13.8.4 Financial Overview

13.8.5 SWOT Analysis

13.8.6 Key Developments

13.9 Moog Inc.

13.9.1 Key Facts

13.9.2 Business Description

13.9.3 Products and Services

13.9.4 Financial Overview

13.9.5 SWOT Analysis

13.9.6 Key Developments

13.10 Boeing

13.10.1 Key Facts

13.10.2 Business Description

13.10.3 Products and Services

13.10.4 Financial Overview

13.10.5 SWOT Analysis

13.10.6 Key Developments

14. Appendix

14.1 About The Insight Partners

14.2 Word Index

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

North America Directed Energy Weapons market Forecast to 2028 - COVID-19 Impact and Regional Analysis - by Technology (Laser, Microwave, Particle Beam, and Others), Range (Less Than 1 Mile and More Than 1 Mile), Application (Ground, Naval, and Airborne), and Platform (Armored Vehicles, Unmanned Systems, Handheld Systems, Aircraft Systems, Ships and Submarines, and Others)

Market Report | 2022-11-16 | 151 pages | The Insight Partners

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User Price	\$3000.00
	Site Price	\$4000.00
	Enterprise Price	\$5000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-05-08"/>
		Signature	<input type="text"/>