

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)

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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

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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.

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