

Directed Energy Weapons Market Report 2023-2028 | Segmentation- Type, Application, Technology and End-Use

BROOKLYN, NY, USA, July 24, 2023 /EINPresswire.com/ -- IMARC Group has recently released a new research study titled "Directed Energy Weapons Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028", offers a detailed analysis of the market drivers, segmentation, growth opportunities, trends and competitive landscape to understand the current and future market scenarios. This report can serve as an excellent guide for investors, researchers, consultants, marketing strategists and all those who are planning to foray into the market in any form.



Market Overview:

The global directed energy weapons market size reached US\$ 6.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 17.8 Billion by 2028, exhibiting a growth rate (CAGR) of 19.1% during 2023-2028.

Industry Definition and Application:

Directed energy weapons (DEWs) are advanced weaponry systems that use concentrated energy to disable or destroy targets. These weapons operate by directing a high-energy beam of electromagnetic radiation, such as lasers or high-powered microwaves, toward a specific target. Unlike conventional weapons that rely on kinetic energy from projectiles or explosives, DEWs use focused energy to deliver instantaneous damage to the target. Lasers are a common type of DEW and work by emitting a concentrated beam of coherent light. These lasers can be of different wavelengths, such as infrared, visible, or ultraviolet, depending on the desired effect.

High-powered microwaves, on the other hand, generate intense bursts of electromagnetic radiation that can disrupt or destroy electronic systems.

Directed energy weapons offer several advantages over traditional kinetic weapons. They have the potential for precision targeting, fast engagement, and reduced collateral damage. DEWs can engage multiple targets rapidly, track moving objects with high accuracy, and provide a cost-effective solution for defense and security operations. DEWs consist of diverse applications, including military defense, aerospace systems, missile defense, counter-electronics, and crowd control. They can be used to disable or destroy enemy missiles, and unmanned aerial vehicles (UAVs), or even disrupt communication and electronic systems. DEWs also have non-lethal applications, such as dispersing crowds or disabling vehicles without causing permanent damage.

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What are the growth prospects and trends in the industry?

The evolving nature of warfare and emerging threats, including unmanned aerial vehicles (UAVs), rockets, and ballistic missiles, are creating a need for advanced defense systems which represents a significant factor driving the growth of the directed energy weapons market across the globe. Directed energy weapons offer capabilities, such as speed-of-light engagement, precision targeting, and the ability to counter multiple threats simultaneously, thereby making them an attractive option for modern warfare. Advances in laser and microwave technologies are contributing to the growth of the market. Improved beam quality, power output, efficiency, and miniaturization of components are making DEWs more practical and effective. The development of solid-state and fiber lasers, as well as high-power microwave sources, is expanding the range of applications and increasing the operational capabilities of DEWs.

Many countries are investing in military modernization programs, which include the development and acquisition of advanced weaponry systems. Directed energy weapons are seen as a strategic asset to enhance defense capabilities, which is providing a cost-effective and efficient alternative to traditional kinetic weapons. Governments and defense organizations worldwide are allocating budgets for the research, development, and procurement of DEWs. Directed Energy Weapons offer non-lethal capabilities for various applications. These include riot control, crowd dispersal, perimeter security, and disabling vehicles or electronic systems without causing permanent damage. The demand for non-lethal alternatives is increasing due to the need for effective yet proportionate response measures in situations involving civil unrest or asymmetric warfare which is fueling the growth of the market. The geopolitical landscape and increasing tensions among nations are driving the demand for advanced defense technologies, including directed energy weapons which is creating a positive outlook for the market across the globe.

Directed Energy Weapons Market 2023-2028 Competitive Analysis and Segmentation:

Competitive Landscape With Key Players:

The competitive landscape of the directed energy weapons market has been studied in the report with the detailed profiles of the key players operating in the market.

Some of these key players include:

- Applied Companies
- BAE Systems Plc
- L3harris Technologies Inc.
- Lockheed Martin Corporation
- Moog Inc.
- Northrop Grumman Corporation
- Qinetiq Group PLC
- Raytheon Technologies Corporation
- Rheinmetall Aktiengesellschaft
- Textron Inc.
- The Boeing Company

Key Market Segmentation:

The report has segmented the global directed energy weapons market based on type, application, technology, end use and region.

Breakup by Type:

- Lethal
- Non-Lethal

Breakup by Application:

- Homeland Security
- Defense

Breakup by Technology:

- High Energy Laser:
 - o Chemical Laser
 - o Fiber Laser
 - o Free Electron Laser
 - o Solid -State Laser

- High Power Microwave
- Particle Beam

Breakup by End Use:

- Ship Based
- Land Vehicles
- Airborne
- Gun Shot

Breakup by Region:

- North America
- Asia Pacific
- Europe
- Latin America
- Middle East and Africa

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Key Highlights of the Report:

- Market Performance (2017-2022)
- Market Outlook (2023-2028)
- Market Trends
- Market Drivers and Success Factors
- Impact of COVID-19
- Value Chain Analysis
- Comprehensive mapping of the competitive landscape

If you need specific information that is not currently within the scope of the report, we will provide it to you as a part of the customization.

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