Global Anti-Drone Market, Analysis and Forecasts, 2016-2021

Description: The anti-drones market is experiencing a vigorous rate of growth over the few years due to the increasing drone incidents. This high scale of growth of the UAV industry is subsequently influencing the anti-drones industry, wherein new range of programs are being carried out to develop counter-UAV systems to overcome challenges in detection and implementation of anti-drone systems in commercial sectors. The use of drones for terrorist activities, smuggling, and for border infraction are some of the major reasons driving the anti-drones market forward. Depending on the range of the UAV, anti-drone systems differ from small to large unmanned aerial vehicles. The different types of detection and neutralization technologies used in the anti-drone systems include: high energy laser, jammers, kinetic and non-kinetic measures, and hijacking, among others. By analysis, anti-drone systems generated $209.77 million in 2016, in terms of revenue.

Following points provide a concrete description of the report content and the topics covered in the report:

- This report identifies the global anti-drones market in different segments such as technology, application, and geography
- The market size of the sub segments of the above mentioned divisions is also included in the report
- The study includes the market analysis and forecast of global anti-drones market from 2016 to 2021 in terms of value. The report also highlights the year-on-year growth of the market
- The study examines the prime supply and demand side factors affecting the growth of the market along with the current and future trends in anti-drones market
- The study also presents a detailed examination of anti-drones market along the lines of market drivers, restraints, growth opportunities, and challenges
- The report also highlights the value chain and evolution of the anti-drones system in the industry with a major focus on technology roadmap
- A detailed competitive analysis has been included in this report which focuses on the key market developments & strategies followed by the key players in the market. This section covers the research and development (R&D) analysis of the leading players
- Anti-drones market analysis and forecast with respect to its various technology such as laser system, kinetic system and electronic system among others garner major emphasis in the report
- In this report, the market is segmented on the basis of application and the type of technology used in both the application
- Anti-drones market has been analyzed for all geographies including North America, Europe, Asia-Pacific, and Rest of the World with further analysis with respect to several major countries
- Several ongoing programs for advancement of anti-drones systems are included in this report
- The key market players are analyzed and profiled in detail in the report. This section covers the business financials, company snapshots, key products & services, major developments, future programs (if any), and finally, the individual SWOT analysis.

An increase in the usage of drones for commercial purposes has led to a growth in significant threats such as attacks using drones and violation of privacy that has made concern over public safety. Apart from the usage of drones in agriculture, photography and event shooting, oil and gas industry, wildlife research, product delivery, mapping and surveillance, meteorology, mining and natural gas exploration, UAVs are also being used for the following purposes creating an extensive demand for anti-drone systems:

1. Espionage -- Private areas, industrial installations, public institutions, military installations
2. Smuggling-- Prisons, borders, industry
3. Terror acts -- Critical infrastructure, dense populated areas, people assemblies, events

Anti-drone systems are used to detect, identify and neutralize rogue drones. These systems uses different technologies such as jamming, high energy lasers, directed energy weapons, command and control (C2), electro-optical surveillance, electronic surveillance and RF threat management to detect and neutralize unmanned aerial vehicles. According to BIS Research Analysis, the anti-drones market is estimated to be at $209.77 million in 2016.

The high growth of anti-drones market in aerospace and defense industry is majorly attributed to increasing security breach by unidentified drones. Various instances, for example, incidents when a drone crashed at the White House lawn, a flying machine overflew the nuclear facilities at France and the near misses to an
aircraft at the airports across the world have triggered the need for anti-drone systems. For instance, in April 2016, an incident at San Francisco where a British Airways flight was hit by a drone causing slight damage to the aircraft which raised serious safety concerns. Thus, the growing number of incidents by unknown drones is a primary driver for development of the market. Moreover, there are a number of opportunities for counter-UAV systems in defense and non-defense applications.

Anti-drone systems use different modes of engaging the threats such as kinetic system, laser system, and electronic system. The laser systems accommodate for the highest share in terms of value. The technology is being used to shoot small UAVs using a high energy laser beam. Some of the defense prime contractors such as Northrop Grumman, Boeing, Rafael Advanced Defense Systems and Rheinmetall Defense Electronics are using laser technology for their anti-drone systems. Due to technological innovation, electronics system has been observed to be a powerful tool to be used in anti-drones systems. Hence, it is expected to grow at a faster CAGR in the forecast period.

The anti-drone systems vary according to its usage in military and commercial applications. The increase in the terrorism, drone attacks, and borders infraction are some of the factors driving the defense market. The increase in the R&D activities by the defense prime contractors and illicit activities has resulted in the highest revenue of the defense segment. Globally, the usage of commercial drones has considerably increased which has posed a serious threat to the public safety and the violation of privacy. Moreover, there is an impending need for anti-drone systems at airports, prisons, events, and critical infrastructure that has driven the non-defense segment to grow at a faster rate.

North America is currently dominating the anti-drones market; however, the geographical analysis of this market unveils a great potential for growth in the Asian countries. According to the analysis, the U.S. will grow at a faster rate; accommodating majority of the revenue. Recently, Federal Aviation Administration initiated a Pathfinder Programme and selected Anti-UAV Defense System (AUDS) to start a trail phase to protect the major U.S. airports from drones. Similarly, in 2015, France has started a program named Project Angel as that focuses on 18-months study on counter-UAV systems. Russia, China and Canada are also expected to have a decent rate of growth from 2016-2021.
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