

Nano Drones Market Projected to Witness a Growth of US \$8.03 Billion by 2029 | The Business Research Company

The Business Research Company's Nano Drones Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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/EINPresswire.com/ -- [Nano Drones](#)

Market Growth Forecast: What To Expect By 2025?

In the past few years, the market size of nano drones has seen considerable expansion. The expected market value is to rise from \$2.16 billion in 2024 to mark a value of \$2.8 billion in 2025, mirroring a compound annual growth rate (CAGR) of 29.6%. Factors such as the need for disaster



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management and surveillance, integration of AI and automation, decreasing costs leading to greater affordability, commercial and industrial applications, as well as continuous R&D and innovation have contributed to the surge in growth during the historic period.

In the coming years, the market size for nano drones is projected to experience significant expansion, estimated to be around \$8.03 billion in 2029, growing at a compound annual growth rate of 30.1%. This expected growth over the forecast period can be traced back to factors like the need for security and surveillance, the miniaturization of

components, advancements in automation and AI, market demand and consumer trends, and the increase in commercial usage. Significant trends anticipated during the forecast period encompass delivery services, personal and recreational usage, academic and research activities, media and entertainment, and disaster management and search initiatives.

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What Are Key Factors Driving The Demand In The Global Nano Drones Market?

The burgeoning construction sector is set to propel the expansion of the nano-drone market in the future. This industry covers a wide economic sphere that includes planning, designing, building, and maintaining physical structures and infrastructures such as buildings, roads, bridges, utilities, and other facilities. Nano drones have found application in construction, offering effective aerial surveillance and inspection, which helps in swift and thorough monitoring of construction sites, thus improving safety and simplifying project management. For example, in February 2024, the South Korean government intends to deploy 2.7 trillion won (\$2 billion) worth of construction expenditure in its first half, marking a 20% increment from 2023. As a result, the flourishing construction industry is spurring the expansion of the nano-drone market.

Who Are The Leading Players In The Nano Drones Market?

Major players in the Nano Drones Global Market Report 2025 include:

- DJI Innovations
- AeroVironment Inc.
- Parrot SA
- Lockheed Martin Corporation
- BAE Systems plc
- Hubsan
- Thales Group
- Draganfly Innovations
- Skydio Inc.
- Northrop Grumman Corporation

What Are Some Emerging Trends In The Nano Drones Market?

Top firms active in the nano-drone landscape are turning to strategic collaboration as a method to advance the development of nanomaterial elements for their drone products. These collaborations involve pooling resources and applying shared strengths for mutual growth and accomplishment. An illustrative case is the alliance made in August 2023 between Carborundum Universal Ltd., an engineering firm based out of India, and ideaForge Technology Ltd., a drone-producing Indian company. This alliance is positioned to create significant synergies by

enhancing the benefits of appropriate nanomaterials in drone construction, leading to the creation of aerial vehicles that are lighter, smaller, stronger, and longer-lasting. The use of nanomaterial-based composite materials, especially graphene-enhanced polymers, carries the potential to revolutionize structural elements in the aerospace field. Besides technological innovation, this alliance hopes to bolster the 'Make in India' campaign, offering up new possibilities in the domain of drone production.

Analysis Of Major Segments Driving The Nano Drones Market Growth

The nano drones market covered in this report is segmented –

- 1) By Type: Fixed Wing Nano Drones, Rotor Nano Drones, Flapping Wing Nano Drones, Others
- 2) By Payload: Camera, Control Systems, Tracking Systems, Others
- 3) By End User: Consumer, Military Or Law Enforcement, Others

Subsegments:

- 1) By Fixed Wing Nano Drones: Long-Endurance Fixed Wing Drones, Short-Endurance Fixed Wing Drones
- 2) By Rotor Nano Drones: Quadcopters, Hexacopters, Octocopters
- 3) By Flapping Wing Nano Drones: Bio-Inspired Flapping Wing Drones, Miniature Ornithopters
- 4) By Others: Hybrid Nano Drones, Nano Drones with Unique Designs

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Which Region Is Expected To Lead The Nano Drones Market By 2025?

In 2024, North America dominated the nano drones global market as the most extensive region. However, Asia-Pacific is projected to experience the most significant growth within the forecast period. The regions included in the nano drones market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, and Africa.

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