

Unmanned Aerial Vehicles (UAVs) Simulation Market Worth \$2.5 billion by 2031, Supported by a CAGR of 14.6%

Unmanned Aerial Vehicles (UAVs) Simulation Market by Component, by Drone Type, by End Use : Global Opportunity Analysis and Industry Forecast, 2021 - 2031.

WILMINGTON, DE, UNITED STATES, October 6, 2025 /EINPresswire.com/ -- The global [unmanned aerial vehicles \(UAVs\) simulation market size](#) was valued at \$0.6 billion in 2021, and is estimated to reach \$2.5 billion by 2031, growing at a CAGR of 14.6% from 2022 to 2031.

Increase in the adoption of UAVs in military and commercial applications, rise in defense expenditure globally, contracts & agreements with military forces, and persistent technological advancements in attacking capabilities of UAVs are expected to drive the growth of the global unmanned aerial vehicles (UAVs) simulation market. Closed manufacturing facilities, reduced investment due to the tight budget of end-user, lack of workforce, and other supply chain challenges during the pandemic had a negative impact on the growth of the market.

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Helicopter drones can carry a wide variety of payloads, including daytime and IR cameras, environmental sensors, LiDAR scanning systems and radio relay equipment, as well as missiles and other offensive capabilities. In addition, companies are introducing virtual reality based simulation systems to reduce the training period of pilot, supplementing the growth of the UAV simulation market. For instance, in 2021, Indra developed a virtual reality-based simulation system, namely, SIMCUI. It is a new multi-purpose and inter-operable simulation system which can halve the time required to train a civil or military pilot of any type of plane or unmanned aerial vehicles.



COVID-19 Scenario:

The global unmanned aerial vehicles (UAVs) simulation market experienced a negative impact during the pandemic due to the stringent restrictions imposed by governments of various countries across the globe.

Lockdowns resulted in the closure of various manufacturing facilities, including those of all kinds of aircraft and UAVs, which severely impacted the growth of the market.

In addition, the reduction in the skilled workforce and shortage of essential raw materials due to the ban on the import and export of raw materials further aggravated the impact on the market.

These restrictions were imposed by the government to significantly curb the spread of the virus during the pandemic.

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The global unmanned aerial vehicles (UAVs) simulation market is experiencing growth, due to rising adoption of UAVs in military and commercial applications, and less number of skilled and trained pilots. However, high cost of UAV simulation systems hampers the growth of the market. Furthermore, rise in defense expenditure globally, and contracts & agreements with military forces are expected to offer growth opportunities during the forecast period.

Based on region, the market across North America held the dominating market share in 2021, holding more than two-fifths of the global market, and is expected to maintain its leadership status during the forecast period. The Asia-Pacific region, on the other hand, is expected to cite the fastest CAGR of 16.0% during the forecast period.

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The key player analyses in the global unmanned aerial vehicles (UAVs) simulation market report include Bluehalo, CAE Inc., General Atomic Aeronautical System Inc., Havelsan A.S., Indra Sistemas, Israel Aerospace Industries Ltd., Leonardo S.P.A, L3Harris Technologies Inc., Quantum 3D, Raytheon Technologies Corporation, Simlat UAS Simulation, and Singapore Technologies Electronic Limited.

The report analyzes these key players in the global [unmanned aerial vehicles \(UAVs\) simulation industry](#). These market players have made effective use of strategies such as joint ventures, collaborations, expansion, new product launches, partnerships, and others to maximize their foothold and prowess in the industry. The report is helpful in analyzing recent developments, product portfolio, business performance, and operating segments by prominent players in the market.

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David Correa

Allied Market Research

+ + + + +1 800-792-5285

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