

# Commercial Drones Market Report by Weight (

## Abstracts

The global commercial drones market size reached US\$ 26.4 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 148.1 Billion by 2032, exhibiting a growth rate (CAGR) of 20.47% during 2024-2032. The global commercial drone market is experiencing significant growth driven by escalating demand for aerial photography, surveillance, mapping, and delivery from multiple industries, ongoing technological advancements, support of regulations, and affordability that enable drone utilization in sectors such as agriculture, construction, logistics, and emergency response.

### Commercial Drones Market Analysis:

**Major Market Drivers:** The commercial drones market growth is primarily driven by growing demand for aerial surveillance, mapping and data acquisition among a wide range of industries. Improved battery technology and the prevalence of automation are the key drivers for inspiration in agriculture, heavy construction, logistics, and the public safety generally just as many other industries.

**Key Market Trends:** The global commercial drones industry trends include the application of its AI and machine learning (ML) related features, and hence, includes data analysis, autonomous navigation, and decision-making as well. Also, the increasing application of beyond visual line of sight (BVLOS) operations by operators and the adoption of swarming ways of conducting missions, are integral to the evolution of the future of business drone deployments.

**Geographical Trends:** North America dominates the market due to its progressive rules, well-developed infrastructure, and the high acceptance of the product by the industry. Area has its regulatory environment that offers supportive incentives to commercial drones' operations development, and innovative industry and market growth.

**Competitive Landscape:** Some of the major market players in the commercial drones industry include Aeronavics Ltd., AeroVironment Inc., Autel Robotics, Delair, Insitu Inc. (The Boeing Company), Lepton Unmanned Aircraft Systems Inc., PrecisionHawk Inc., SenseFly (AgEagle Aerial Sys), Skydio Inc., SZ DJI Technology Co. Ltd. (iFlight Technology Company Limited), Yuneec

International, among many others.

**Challenges and Opportunities:** The global commercial drone market faces challenges including regulations, data security and privacy, and the ability to integrate itself into the airspace. On the other hand, agricultural areas like precision farming or disaster management are full of opportunities, provide innovative solutions, and often serve as essential tools as time is of great value in the process of operations overall. Besides that, the 5G technology and Hydrogen fuel cells create new possibilities of applications, which are crucial for developing the capabilities of commercial drones.

**Commercial Drones Market Trends:**

**Rapid Technological Advancements:**

The development of technology represents the primary factor driving the commercial drone market share, transforming capabilities and widening applications. According to the U.S. Federal Aviation Administration (FAA), the U.S. drone registrations were higher than 1.7 million in 2020 which was a significant jump in numbers compared to the previous years. This trend, in turn, emphasizes the increasing interest in drone usage. Further evolvments such as longer flight time, higher payload endurance, and mind integration will greatly improve the performance of drones and will open new possibilities in various industries. These technologies improve operational efficiency and provide drones with the capability to focus on more complex operations ranging from long-distance inspections, and parcel delivery services to aerial mapping.

**Expanding Applications Across Industries:**

The commercial drones industry is fueled by the growing variety of uses across multiple sectors. As per the U.S. Department of Transportation's Federal Aviation Administration (FAA), the growth of commercial drone operations is unprecedented, and there were more than 300,000 remote pilot certifications in 2021. The growing trend is a reflection of the increased use of drones for infrastructure inspections, agricultural monitoring, and other public safety operations. However, the agriculture sector remains an important field within this area, with drones being used for crop surveillance, soil analysis, and precision agriculture. The meteoric increase in drone certifications shows how they are becoming critical in boosting operational efficiency, data collection, and decision-making processes in several industries and is causing market growth and innovation.

### Supportive Regulatory Environment:

An enabling regulatory framework represents another major growth-inducing factor in commercial drone market growth. As per the Federal Aviation Administration (FAA), to date, 200,000+ commercial drones have been registered in the USA. This very fact shows how drones are widely spreading for commercial use. Through the FAA's initiatives including the Part 107 regulation and the UAS Integration Pilot Program (IPP), the agency has defined direction and standards for drone operators to integrate unmanned aircraft into the National Airspace System (NAS) safely and responsibly. In an accommodating regulatory setting, companies are given the go-ahead to use drones for creative solutions that in the end boost business growth and productivity across industries.

### Commercial Drones Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2024-2032. Our report has categorized the market based on weight, system, product, mode of operation, application and end use.

### Breakup by Weight:

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