

Global Consumer Grade Drone Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Consumer Grade Drone market size was valued at US\$ 7820 million in 2024 and is forecast to a readjusted size of USD 13160 million by 2031 with a CAGR of 7.8% during review period.

A consumer-grade drone, also known as a recreational or hobby drone, is a small, unmanned aerial vehicle (UAV) designed for personal use and enjoyment. Unlike commercial or industrial drones, these devices are primarily intended for activities such as photography, videography, aerial surveying, and recreational flying. They are typically equipped with features like high-resolution cameras, GPS systems, and intuitive controls, making them accessible to users of all skill levels.

With the improvement of people's living standards and the popularization of drone technology, more and more people are beginning to try and buy drones. Consumers' awareness of drone technology is also increasing, which is further driving the expansion of the drone market. Consumer drones are also continuing to "evolve." For example, drones are developing in the direction of miniaturization, miniaturization, 'extended' battery life, and network clustering. Micro-UAVs like the 'Black Hornet' and 'Hummingbird' not only have the advantages of long endurance and real-time video transmission, but also replace traditional large-scale UAVs in many application scenarios. In the future, with the continuous development of drone technology, the performance and functions of consumer drones will be even better.

The consumer-grade drone market is expected to continue growing, driven by several factors:

Technological advancements: Improvements in battery life, camera quality, and autonomous flight capabilities will make drones more versatile and appealing to consumers.

Expanding applications: Beyond photography and videography, drones are finding new uses in fields such as agriculture, real estate, and search and rescue.

Decreasing prices: As manufacturing costs decline, drones will become more affordable, making them accessible to a wider audience.

Regulatory changes: More favorable regulations in many countries will facilitate the use of drones for recreational and commercial purposes.

Integration with other technologies: Drones may be integrated with augmented reality, virtual reality, and artificial intelligence, creating new opportunities for innovative applications.

The application of 5G technology will increase the market space of consumer drones

The 5G network provides the overall network solution from the wireless network to the core network, and promotes the development of the UAV industry with all aspects of technology improvement. The 5G network connected UAV means that the UAV terminal and ground control terminal transmit data and control instructions through the 5G network, and load applications in various scenarios through the service server. 5G network provides the UAV industry with an overall network solution from the wireless network to the core network. Compared with 4G network, 5G network capabilities can be better and more complete in some applications that have been achieved in the previous 4G network. For example, the use of low delay to achieve remote real-time operations, the use of high transmission rate to achieve high-definition video real-time live broadcast, from coarse precision inspection detection to high-precision precision operations.

Most parts and systems can be fully domestic

The main systems of consumer UAVs can be divided into video surveillance system, flight control system, power system, rack and interactive software, etc. The core system of aerial photography UAV is camera monitoring system and flight control system. Dji is a consumer drone leader, in the picture transmission system, Pith and flight control system are fully independent research and development, but the main control chip,

some system IC chips, cameras and gyroscopes and other precision instruments still choose to purchase from foreign companies. The rest of the UAV components are supplied by domestic suppliers.

The overall profit of the industry is high

Consumer drones use more finished parts in the parts, the cost is low, and the gross profit is relatively rich. In terms of sales price, the price of small consumer UAVs is lower than that of fixed wing or large rotary wing UAVs required for industry-level applications. But the cost of consumer drones is extremely low.

This report is a detailed and comprehensive analysis for global Consumer Grade Drone market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Consumer Grade Drone market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Consumer Grade Drone market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Consumer Grade Drone market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Consumer Grade Drone market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Consumer Grade Drone

To forecast future growth in each product and end-use market
To forecast future factors affecting the marketplace

This report profiles key players in the global Consumer Grade Drone market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DJI, Autel Robotics, Parrot, Walkera, BETA FPV Hobby, ImmersionRC, HGLRC, GEPRC, HUBSAN, iFlight, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Consumer Grade Drone market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fixed Wing

Spiral Wing

Market segment by Application

Online Sales

Offline Sales

Major players covered

DJI

Autel Robotics

Parrot

Walkera

BETAFPV Hobby

ImmersionRC

HGLRC

GEPRC

HUBSAN

iFlight

Holy Stone

CADDX

InsideFPV

APEX

Ryze Tech (Tello)

Skydio

AEE

SYMA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East)

& Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Consumer Grade Drone product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Consumer Grade Drone, with price, sales quantity, revenue, and global market share of Consumer Grade Drone from 2020 to 2025.

Chapter 3, the Consumer Grade Drone competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Consumer Grade Drone breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Consumer Grade Drone market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Consumer Grade Drone.

Chapter 14 and 15, to describe Consumer Grade Drone sales channel, distributors, customers, research findings and conclusion.

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