

## **Drones - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-06-01 | 120 pages | Mordor Intelligence

### **AVAILABLE LICENSES:**

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

### **Report description:**

Drones Market Analysis

The drones market size reached USD 41.79 billion in 2025 and is on course to climb to USD 89.70 billion by 2030, reflecting a robust 13.9% CAGR. Adoption accelerates as on-board edge-AI runs complex perception algorithms on sub-10 W chipsets, making autonomous missions viable in construction, energy, and agriculture. Rapid 5G roll-outs with Multi-access Edge Computing (MEC) provide sub-10 ms latency that supports dependable Beyond Visual Line-of-Sight (BVLOS) control, while steep sensor price declines open sophisticated payloads to smaller operators. Regulatory momentum—most notably the FAA's draft BVLOS rules and ICAO's new Standards and Recommended Practices (SARPs)—signals greater airspace access. Yet supply chain strains, notably lithium-ion cell shortages and export curbs on rare-earth materials, continue to inflate bill-of-materials costs and could dampen discretionary demand. Overall, competition is shifting toward firms that are able to bundle hardware, AI software, and regulatory compliance into an end-to-end value proposition, accelerating consolidation across the drones market.

Global Drones Market Trends and Insights

On-board Edge-AI Maturation: Real-time Processing Unlocks Autonomous Operations

Edge inference engines now execute object detection, path planning, and contingency logic on lightweight 7-10 W processors, letting drones adapt in complex environments without back-haul latency. Utility operators report downtime cuts of up to 35% when AI-equipped craft flag anomalies and autonomously re-position for detailed imaging, driving strong ROI. Large language

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scott-international.com](mailto:support@scott-international.com)

[www.scott-international.com](http://www.scott-international.com)

models are integrated into safety stacks to boost collision-avoidance decision quality.

#### 5G and MEC Roll-outs: Ultra-low Latency Enables BVLOS Viability

Standalone 5G networks paired with carrier-edge nodes deliver sub-10 ms round-trip latency, removing the need for ground-based radio relays. Valmont's 77-mile BVLOS inspection over T-Mobile's 5G grid validated persistent command links and real-time video backhaul. The FCC's Part 88 rules further cement a protected 5030-5091 MHz corridor for drone command channels.

#### Lithium-ion Cell Supply Crunch Inflating Small-UAV BOM Costs

Battery cells comprise up to one-quarter of typical small-drone costs, and 30-40% price hikes since 2024 have forced OEMs either to absorb margin compression or lift selling prices. Geopolitical tensions and rising EV demand exacerbate the shortage, while China's export curbs on key battery minerals threaten longer-term capacity.

Other drivers and restraints analyzed in the detailed report include:

Sensor-Cost Freefall: Multispectral and LiDAR Price Declines Expand ROI / U-space/UTM Standardization: ICAO Alignment Accelerates Cross-border Operations / Stringent India RPAS Import Bans Limiting Foreign OEM Revenue /

For complete list of drivers and restraints, kindly check the Table Of Contents.

#### Segment Analysis

Construction held 39.45% of the drones market in 2024 as aerial progress tracking, 3-D modeling, and site security became mainstream. High-resolution photogrammetry slashes survey time by over 70% compared with manual methods, while automated volume calculations speed payment cycles. The energy industry, though smaller, exhibits a 19.05% CAGR that could narrow the gap by 2030. Utilities now swap helicopters for AI-guided rotorcraft that spot insulator cracks or thermal hotspots in a single sortie, achieving around 60% annual cost savings. Agriculture follows closely, thanks to FAA-approved swarm spraying; firms such as Hyllo report that over half of clients now deploy multi-drone swarms to cover large acreages.

Momentum is also building in public safety and entertainment. In trials, drone-as-first-responder (DFR) programs cut dispatch times from eight to 3.5 minutes, augmenting community policing efficiency. Cinematography continues to push payload innovation, encouraging wider sensor integration. These trends point to a progressively diversified drone market, each niche optimizing specific airframe, sensor, and autonomy requirements.

Fixed-wing craft commanded 45.07% of 2024 revenue, prized for low energy consumption over long linear corridors such as pipelines. Yet, hybrid VTOL aircraft are scaling at 20.10% CAGR as urban air-mobility operators need vertical take-off to fit space-constrained rooftops. Rotary-wing units remain essential for hovering jobs like telecom-tower inspection or search-and-rescue. EHang's EH216-S achieved the world's first. Adoption of composite materials is another differentiator. Carbon-fiber-reinforced polymer airframes trim weight by up to 15% while preserving stiffness, directly extending range. Meanwhile, bio-based resins show promise for end-of-life recyclability, reflecting rising environmental scrutiny across the drone type certificate for a pilotless passenger eVTOL in 2024, underscoring hybrid viability.

Adoption of composite materials is another differentiator. Carbon-fiber-reinforced polymer airframes trim weight by up to 15% while preserving stiffness, directly extending range. Meanwhile, bio-based resins show promise for end-of-life recyclability, reflecting rising environmental scrutiny across the drone industry.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

The Drones Market Report is Segmented by Application (Construction, Agriculture and More), Type (Fixed-Wing Drones, Rotary-Wing Drones, and More), Weight Class (Nano/Micro, Small, and More), Mode of Operation (Remotely Piloted, Optionally Piloted, and More), End-User (Commercial and Consumer, and More) and Geography (North America, Europe, and More). The Market Forecasts are Provided in Terms of Value (USD).

## Geography Analysis

North America produced 37.97% of global 2024 revenue, buoyed by FAA test-site programs and dedicated 5030-5091 MHz spectrum for command links. Wing and Walmart surpassed 150,000 parcel deliveries using fully integrated UTM services, demonstrating commercial readiness at scale. Policy, however, is tightening around data security, with the American Security Drone Act encouraging domestic production to replace Chinese airframes in federal fleets.

Asia-Pacific is the fastest-expanding region, with a 15.27% CAGR. China's "low-altitude economy" strategy targets a CHY 3.5 trillion yuan (USD 487 billion) market by 2035 and supports local champions with testing corridors and purchase subsidies. India's import embargo stifles foreign OEMs but fuels nascent manufacturing clusters under the PLI scheme. Japan and South Korea channel drones into infrastructure inspection and tsunami-response missions, reflecting high disaster-preparedness budgets.

Europe remains pivotal, anchored by EASA's unified U-space blueprint that governs more than 1.6 million registered operators. Stringent privacy-by-design mandates prolong deployment cycles, yet sustainability-oriented projects-like drone-assisted offshore-wind maintenance-keep demand rising. The continent has also approved specific corridors for eVTOL trials, putting manufacturers on a clear path toward air-taxi certification by the late 2020s.

## List of Companies Covered in this Report:

SZ DJI Technology Co., Ltd. / Parrot Drones SAS / AeroVironment, Inc. / Skydio, Inc. / The Boeing Company / Yuneec International Co. Ltd. (ATL Global Holding AG) / Terra Drone Corporation / Delair SAS / Autel Robotics Co., Ltd. / Guangzhou EHang Intelligent Technology Co. Ltd. / AgEagle Aerial Systems Inc. / UVify Inc. /

## Additional Benefits:

The market estimate (ME) sheet in Excel format /  
3 months of analyst support /

## Table of Contents:

### 1 INTRODUCTION

- 1.1 Study Assumptions and Market Definition
- 1.2 Scope of the Study

### 2 RESEARCH METHODOLOGY

### 3 EXECUTIVE SUMMARY

### 4 MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 Market Drivers
  - 4.2.1 On-board edge-AI maturation: real-time processing unlocks autonomous operations
  - 4.2.2 5G and MEC roll-outs: ultra-low latency enables BVLOS viability

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 4.2.3 Sensor-cost freefall: Multispectral and LiDAR price declines expand ROI
- 4.2.4 U-space/UTM standardization: ICAO alignment accelerates cross-border operations
- 4.2.5 On-demand logistics boom
- 4.2.6 Decarbonization economics
- 4.3 Market Restraints
  - 4.3.1 Lithium-ion cell supply crunch inflating small-UAV BOM costs
  - 4.3.2 Stringent India RPAS import bans limiting foreign OEM revenue
  - 4.3.3 Privacy-by-design rules in EU slowing urban adoption
  - 4.3.4 Spectrum-sharing conflicts with 5G mmWave bands
- 4.4 Value Chain Analysis
- 4.5 Regulatory Outlook
- 4.6 Technological Outlook
- 4.7 Porter's Five Forces Analysis
  - 4.7.1 Bargaining Power of Buyers/Consumers
  - 4.7.2 Bargaining Power of Suppliers
  - 4.7.3 Threat of New Entrants
  - 4.7.4 Threat of Substitutes
  - 4.7.5 Intensity of Competitive Rivalry

## 5 MARKET SIZE AND GROWTH FORECASTS (VALUE)

- 5.1 By Application
  - 5.1.1 Construction
  - 5.1.2 Agriculture
  - 5.1.3 Energy
  - 5.1.4 Entertainment
  - 5.1.5 Law-Enforcement
  - 5.1.6 Other Applications
- 5.2 By Type
  - 5.2.1 Fixed-Wing Drones
  - 5.2.2 Rotary-Wing Drones
  - 5.2.3 Hybrid/VTOL Drones
- 5.3 By Weight Class
  - 5.3.1 Nano/Micro (Less than 2 kg)
  - 5.3.2 Small (2 to 25 kg)
  - 5.3.3 Medium (25 to 150 kg)
  - 5.3.4 Large (Greater than 150 kg)
- 5.4 By Mode of Operation
  - 5.4.1 Remotely Piloted
  - 5.4.2 Optionally Piloted
  - 5.4.3 Fully Autonomous
- 5.5 By End-User
  - 5.5.1 Commercial and Consumer
  - 5.5.2 Government and Civil
- 5.6 By Geography
  - 5.6.1 North America
    - 5.6.1.1 United States
    - 5.6.1.2 Canada

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 5.6.1.3 Mexico
- 5.6.2 Europe
  - 5.6.2.1 United Kingdom
  - 5.6.2.2 Germany
  - 5.6.2.3 France
  - 5.6.2.4 Russia
  - 5.6.2.5 Rest of Europe
- 5.6.3 Asia-Pacific
  - 5.6.3.1 China
  - 5.6.3.2 India
  - 5.6.3.3 Japan
  - 5.6.3.4 South Korea
  - 5.6.3.5 Rest of Asia-Pacific
- 5.6.4 South America
  - 5.6.4.1 Brazil
  - 5.6.4.2 Rest of South America
- 5.6.5 Middle East and Africa
  - 5.6.5.1 Middle East
    - 5.6.5.1.1 United Arab Emirates
    - 5.6.5.1.2 Saudi Arabia
    - 5.6.5.1.3 Rest of Middle East
  - 5.6.5.2 Africa
    - 5.6.5.2.1 South Africa
    - 5.6.5.2.2 Rest of Africa

## 6 COMPETITIVE LANDSCAPE

- 6.1 Market Concentration
- 6.2 Strategic Moves
- 6.3 Market Share Analysis
- 6.4 Company Profiles (includes Global level Overview, Market level overview, Core Segments, Financials as available, Strategic Information, Market Rank/Share for key companies, Products and Services, and Recent Developments)
  - 6.4.1 SZ DJI Technology Co., Ltd.
  - 6.4.2 Parrot Drones SAS
  - 6.4.3 AeroVironment, Inc.
  - 6.4.4 Skydio, Inc.
  - 6.4.5 The Boeing Company
  - 6.4.6 Yuneec International Co. Ltd. (ATL Global Holding AG)
  - 6.4.7 Terra Drone Corporation
  - 6.4.8 Delair SAS
  - 6.4.9 Autel Robotics Co., Ltd.
  - 6.4.10 Guangzhou EHang Intelligent Technology Co. Ltd.
  - 6.4.11 AgEagle Aerial Systems Inc.
  - 6.4.12 UVify Inc.

## 7 MARKET OPPORTUNITIES AND FUTURE OUTLOOK

- 7.1 White-space and Unmet-Need Assessment

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

**Drones - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts  
(2025 - 2030)**

Market Report | 2025-06-01 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

**ORDER FORM:**

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-25"/>
		Signature	

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com

