

Global Drone-Based Surveillance System Market Growth 2026-2032

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Abstracts

The global Drone-Based Surveillance System market size is predicted to grow from US\$ 5085 million in 2025 to US\$ 10789 million in 2032; it is expected to grow at a CAGR of 11.4% from 2026 to 2032.

Global sales of drone-based surveillance systems reached approximately 34.2 thousand sets in 2025, with an average selling price of about US\$152 thousand per set. A drone-based surveillance system is a professional aerial monitoring system that uses an unmanned aircraft as the flight platform and integrates visible-light cameras, infrared thermal imagers or other surveillance payloads, communication data links, ground control equipment and mission management software to observe, identify, locate, track and transmit information on designated areas, facilities or targets. Available in free-flight, autonomous docked and tethered persistent configurations, these systems combine remote control, autonomous route planning, real-time imagery transmission, intelligent target recognition and multi-drone mission coordination to improve monitoring coverage and response efficiency across large areas, complex terrain and high-risk environments. Major applications include defense intelligence, border security, law enforcement surveillance, infrastructure security, emergency management and environmental monitoring.

Market growth is primarily driven by rising demand for defense intelligence, border security, law enforcement and critical infrastructure protection. Compared with fixed cameras and crewed aircraft, drone-based surveillance systems provide more flexible deployment, broader coverage, faster response and lower personnel exposure in complex terrain and hazardous environments. Continued advances in infrared imaging, artificial intelligence-based target recognition, remote communications, autonomous route planning and multi-drone coordination are also shifting the market from manually

operated aircraft toward autonomous docks, unattended operation and persistent surveillance. Improving low-altitude regulatory frameworks and increasing investment in public safety, emergency response and environmental monitoring will further support adoption.

LP Information, Inc. (LPI) ' newest research report, the "Drone-Based Surveillance System Industry Forecast" looks at past sales and reviews total world Drone-Based Surveillance System sales in 2025, providing a comprehensive analysis by region and market sector of projected Drone-Based Surveillance System sales for 2026 through 2032. With Drone-Based Surveillance System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Drone-Based Surveillance System industry.

This Insight Report provides a comprehensive analysis of the global Drone-Based Surveillance System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Drone-Based Surveillance System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Drone-Based Surveillance System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Drone-Based Surveillance System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Drone-Based Surveillance System.

This report presents a comprehensive overview, market shares, and growth opportunities of Drone-Based Surveillance System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Free Flight Surveillance System

Autonomous Docked Surveillance System

Tethered Persistent Surveillance System

Other

Segmentation by Aircraft Configuration:

Multicopter

Fixed Wing

Hybrid VTOL Fixed Wing

Hybrid VTOL

Other

Segmentation by Primary Power Source:

Battery Electric

Fuel Engine

Hybrid Propulsion

Tethered Ground Power

Other

Segmentation by Application:

Defense Intelligence

Border Security

Law Enforcement

Infrastructure Security

Emergency Management

Environmental Monitoring

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

AeroVironment, Inc.

The Boeing Company

Textron Inc.

Skydio, Inc.

Anduril Industries, Inc.

Red Cat Holdings, Inc.

BRINC Drones, Inc.

L3Harris Technologies, Inc.

Shield AI, Inc.

Lockheed Martin Corporation

Teledyne Technologies Incorporated

Redwire Corporation

Hoverfly Technologies, Inc.

Easy Aerial Inc.

Asylon Robotics, Inc.

Ondas Inc.

Draganfly Inc.

Airbus SE

Parrot S.A.

Saab AB

Schiebel Elektronische Ger?te GmbH

Quantum-Systems GmbH

TEKEVER

WB Electronics S.A.

C-Astral Aerospace Ltd.

Primoco UAV SE

Threod Systems

Elistair

SwissDrones Operating AG

Delair

Leonardo S.p.A.

Rheinmetall AG

Alpha Unmanned Systems S.L.

Azur Drones

DeltaQuad B.V.

Fotokite AG

Patria Oyj

Elbit Systems Ltd.

Israel Aerospace Industries Ltd.

Aeronautics Ltd.

Percepto Ltd.

Steadicopter Ltd.

STM Savunma Teknolojileri M?hendislik ve Ticaret A.?

Baykar Makina Sanayi ve Ticaret A.?

Lentatek

EDGE Group PJSC

Skyeton

UkrSpecSystems

Athlon Avia LLC

DeViRo

ZALA Aero Group

ACSL Ltd.

PRODRONE Co., Ltd.

UCONSYSTEM Co., Ltd.

Singapore Technologies Engineering Ltd

RV Connex Co., Ltd.

PT Dirgantara Indonesia

DRB-HICOM Defence Technologies Sdn. Bhd.

ideaForge Technology Limited

Asteria Aerospace Limited

Johnnette Technologies Pvt. Ltd.

Raphe mPhibr Pvt. Ltd.

Coromandel International Limited

Coretronic Corporation

Carbonix

SZ DJI Technology Co., Ltd.

Chengdu JOUAV Automation Tech Co., Ltd.

Autel Robotics Co., Ltd.

Zhuhai Ziyang UAV Co., Ltd.

MicroMultiCopter Aero Technology Co., Ltd.

GDU Technology Co., Ltd.

Shenzhen Kewetair Enterprise Development Co., Ltd.

i-KINGTEC

Guangzhou GeoAI Technology Co., Ltd.

Shanghai FOIA Intelligence Technology Co., Ltd.

Guandian Defense Technology Co., Ltd.

Xi'an Lyncon Electronic Technology Co., Ltd.

Beijing Zhuoyi Intelligent Technology Co., Ltd.

Beijing Honeycomb Aerospace Technologies Co., Ltd.

Harwar International Aviation Technology Shenzhen Co., Ltd.

Shenzhen Smart Drone UAV Co., Ltd.

United Aircraft Group

Beijing Flightwin Innovation Technology Co., Ltd.

XMobots Aeroespacial e Defesa Ltda.

Stella Tecnologia Indústria e Comércio Ltda.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Drone-Based Surveillance System market?

What factors are driving Drone-Based Surveillance System market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Drone-Based Surveillance System market opportunities vary by end market size?

How does Drone-Based Surveillance System break out by Type, by Application?

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