

Global Drone-Based Surveillance System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Drone-Based Surveillance System market size was valued at US\$ 5348 million in 2025 and is forecast to a readjusted size of US\$ 10945 million by 2032 with a CAGR of 10.7% during review period.

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.

This report is a detailed and comprehensive analysis for global Drone-Based Surveillance System 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 Drone-Based Surveillance System market size and forecasts, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (K US\$/Set), 2021-2032

Global Drone-Based Surveillance System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (K US\$/Set), 2021-2032

Global Drone-Based Surveillance System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (K US\$/Set), 2021-2032

Global Drone-Based Surveillance System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sets), and ASP (K US\$/Set), 2021-2026

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 Drone-Based Surveillance System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Drone-Based Surveillance System 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 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, etc.

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

Market Segmentation

Drone-Based Surveillance System market is split by Type and by Application. For the period 2021-2032, 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

Free Flight Surveillance System

Autonomous Docked Surveillance System

Tethered Persistent Surveillance System

Other

Market segment by Aircraft Configuration

Multirotor

Fixed Wing

Hybrid VTOL Fixed Wing

Hybrid VTOL

Other

Market segment by Primary Power Source

Battery Electric

Fuel Engine

Hybrid Propulsion

Tethered Ground Power

Other

Market segment by Application

Defense Intelligence

Border Security

Law Enforcement

Infrastructure Security

Emergency Management

Environmental Monitoring

Other

Major players covered

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 Geräte 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.

GD Technology Co., Ltd.

Shenzhen Kewei 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 Ind?stria e Com?rcio Ltda.

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 Drone-Based Surveillance System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Drone-Based Surveillance System, with price, sales quantity, revenue, and global market share of Drone-Based Surveillance System from 2021 to 2026.

Chapter 3, the Drone-Based Surveillance System competitive situation, sales quantity,

revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Drone-Based Surveillance System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Drone-Based Surveillance System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Drone-Based Surveillance System.

Chapter 14 and 15, to describe Drone-Based Surveillance System sales channel, distributors, customers, research findings and conclusion.

Contents

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