

Global Drone Detection Market Size study, by Technology (Radar Systems, RF Detection), by Platform (Fixed, Mobile), by End Use (Military & Defense, Commercial), by Range, and Regional Forecasts 2022-2032

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Abstracts

The Global Drone Detection Market is valued at approximately USD 0.61 billion in 2023 and is anticipated to grow with a phenomenal CAGR of 29.00% over the forecast period 2024–2032. As the proliferation of unmanned aerial vehicles (UAVs) accelerates, propelled by their utility across sectors, so too does the threat they pose to sensitive infrastructures, airspaces, and national security. This dynamic has catalyzed a technological arms race in the development of drone detection systems capable of identifying, tracking, and neutralizing rogue UAVs in real-time. Blending cutting-edge radar capabilities with RF analytics and artificial intelligence, drone detection solutions are rapidly emerging as critical infrastructure for governments, defense agencies, and high-value commercial assets alike.

The evolving drone landscape presents an increasingly complex security challenge, with consumer-grade UAVs often modified for espionage, surveillance, or even weaponization. In response, market players are integrating RF detection with electro-optical and infrared systems to bolster target acquisition accuracy and mitigate false positives. Moreover, mobile and fixed drone detection platforms are being deployed across border checkpoints, military zones, stadiums, and data centers. These systems, often embedded with machine learning algorithms, are capable of adapting to evolving drone behaviors, thereby expanding their threat-mitigation efficacy across diverse environments and operational ranges.

While the urgency to secure skies is palpable, the market contends with persistent

hurdles—chief among them being regulatory ambiguity in UAV engagement protocols and high system costs for widespread commercial deployment. Additionally, interoperability challenges across jurisdictions and technologies remain a stumbling block. Nevertheless, governments worldwide are ramping up investments into homeland security technologies and updating aviation frameworks to include drone-related threats. At the same time, commercial sectors such as energy, logistics, and event security are exploring scalable, cost-effective mobile units, signaling a shift toward democratization of airspace defense.

From a geographic lens, North America currently holds a dominant share of the global drone detection market, owing to heightened defense budgets, strong federal mandates, and a thriving technology ecosystem. The region continues to set the benchmark in UAV countermeasure implementation across public and private sectors. Europe trails closely, driven by rising threats to critical infrastructure and strengthened by cross-border cooperation in security initiatives under EU frameworks. Meanwhile, the Asia Pacific region is projected to witness the fastest growth, fueled by increasing regional conflicts, expanded drone usage in commercial settings, and significant government investments in surveillance and defense modernization programs in countries like China, India, and Japan.

Major market player included in this report are:

Dedrone Holdings Inc.

Thales Group

Raytheon Technologies Corporation

Leonardo S.p.A.

DroneShield Ltd

Lockheed Martin Corporation

Israel Aerospace Industries

Blighter Surveillance Systems Ltd.

SRC, Inc.

Rohde & Schwarz GmbH & Co KG

Fortem Technologies, Inc.

Saab AB

Detect, Inc.

Liteye Systems, Inc.

Northrop Grumman Corporation

The detailed segments and sub-segment of the market are explained below:

By Technology:

Radar Systems

RF Detection

By Platform:

Fixed

Mobile

By End Use:

Military & Defense

Commercial

By Range:

Short Range

Medium Range

Long Range

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

Companies Mentioned

Dedrone Holdings Inc.

Thales Group

Raytheon Technologies Corporation

Leonardo S.p.A.

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Lockheed Martin Corporation

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Blighter Surveillance Systems Ltd.

SRC, Inc.

Rohde & Schwarz GmbH & Co KG

Fortem Technologies, Inc.

Saab AB

Detect, Inc.

Liteye Systems, Inc.

Northrop Grumman Corporation

Contents

CHAPTER 1. GLOBAL DRONE DETECTION MARKET EXECUTIVE SUMMARY

- 1.1. Global Drone Detection Market Size & Forecast (2022–2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Technology
 - 1.3.2. By Platform
 - 1.3.3. By End Use
 - 1.3.4. By Range
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL DRONE DETECTION MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL DRONE DETECTION MARKET DYNAMICS

Global Drone Detection Market Size study, by Technology (Radar Systems, RF Detection), by Platform (Fixed, Mob...

3.1. Market Drivers

- 3.1.1. Rapid Proliferation of Unauthorized UAVs
- 3.1.2. Strengthening Government Regulations on Airspace Security
- 3.1.3. Advancements in Radar, RF, and AI Integration

3.2. Market Challenges

- 3.2.1. Regulatory Ambiguity in Counter-Drone Engagement
- 3.2.2. High System Deployment and Maintenance Costs
- 3.2.3. Interoperability Challenges Across Technologies and Jurisdictions

3.3. Market Opportunities

- 3.3.1. Deployment of Cost-Effective Mobile Detection Units
- 3.3.2. Expansion into Commercial Sectors (Events, Logistics, Energy)
- 3.3.3. Incorporation of AI-Driven Analytics for Threat Prediction

CHAPTER 4. GLOBAL DRONE DETECTION MARKET INDUSTRY ANALYSIS

4.1. Porter's Five Forces Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's Model
- 4.1.7. Impact Analysis

4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economic
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

4.3. Top Investment Opportunities

4.4. Top Winning Strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL DRONE DETECTION MARKET SIZE & FORECASTS BY TECHNOLOGY 2022–2032

5.1. Segment Dashboard

5.2. Global Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Radar Systems

5.2.2. RF Detection

CHAPTER 6. GLOBAL DRONE DETECTION MARKET SIZE & FORECASTS BY PLATFORM 2022–2032

6.1. Segment Dashboard

6.2. Global Market: Platform Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Fixed

6.2.2. Mobile

CHAPTER 7. GLOBAL DRONE DETECTION MARKET SIZE & FORECASTS BY END USE 2022–2032

7.1. Segment Dashboard

7.2. Global Market: End Use Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Military & Defense

7.2.2. Commercial

CHAPTER 8. GLOBAL DRONE DETECTION MARKET SIZE & FORECASTS BY RANGE 2022–2032

8.1. Segment Dashboard

8.2. Global Market: Range Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. Short Range

8.2.2. Medium Range

8.2.3. Long Range

CHAPTER 9. GLOBAL DRONE DETECTION MARKET SIZE & FORECASTS BY REGION 2022–2032

9.1. North America Market

9.1.1. U.S. Market

9.1.1.1. Technology Breakdown, 2022–2032

9.1.1.2. Platform Breakdown, 2022–2032

9.1.2. Canada Market

9.2. Europe Market

9.2.1. U.K. Market

9.2.2. Germany Market

9.2.3. France Market

9.2.4. Spain Market

9.2.5. Italy Market

9.2.6. Rest of Europe Market

9.3. Asia-Pacific Market

9.3.1. China Market

9.3.2. India Market

9.3.3. Japan Market

9.3.4. Australia Market

9.3.5. South Korea Market

9.3.6. Rest of Asia-Pacific Market

9.4. Latin America Market

9.4.1. Brazil Market

9.4.2. Mexico Market

9.4.3. Rest of Latin America Market

9.5. Middle East & Africa Market

9.5.1. Saudi Arabia Market

9.5.2. South Africa Market

9.5.3. Rest of Middle East & Africa Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

10.1. Key Company SWOT Analysis

10.1.1. Dedrone Holdings Inc.

10.1.2. Thales Group

10.1.3. Raytheon Technologies Corporation

10.2. Top Market Strategies

10.3. Company Profiles

10.3.1. Dedrone Holdings Inc.

10.3.1.1. Key Information

10.3.1.2. Overview

10.3.1.3. Financial (Subject to Data Availability)

10.3.1.4. Product Summary

10.3.1.5. Market Strategies

10.3.2. Thales Group

10.3.3. Raytheon Technologies Corporation

- 10.3.4. Leonardo S.p.A.
- 10.3.5. DroneShield Ltd
- 10.3.6. Lockheed Martin Corporation
- 10.3.7. Israel Aerospace Industries
- 10.3.8. Blighter Surveillance Systems Ltd.
- 10.3.9. SRC, Inc.
- 10.3.10. Rohde & Schwarz GmbH & Co KG
- 10.3.11. Fortem Technologies, Inc.
- 10.3.12. Saab AB
- 10.3.13. Detect, Inc.
- 10.3.14. Liteye Systems, Inc.
- 10.3.15. Northrop Grumman Corporation

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Drone Detection market, report scope
TABLE 2. Global market estimates & forecasts by Region 2022–2032 (USD Billion)
TABLE 3. Global market estimates & forecasts by Technology 2022–2032 (USD Billion)
TABLE 4. Global market estimates & forecasts by Platform 2022–2032 (USD Billion)
TABLE 5. Global market estimates & forecasts by End Use 2022–2032 (USD Billion)
TABLE 6. Global market estimates & forecasts by Range 2022–2032 (USD Billion)
TABLE 7. Global market by segment, estimates & forecasts, 2022–2032 (USD Billion)
TABLE 8. North America market estimates & forecasts, 2022–2032 (USD Billion)
TABLE 9. U.S. market estimates & forecasts by segment, 2022–2032 (USD Billion)
TABLE 10. Canada market estimates & forecasts by segment, 2022–2032 (USD Billion)
TABLE 11. Europe market estimates & forecasts, 2022–2032 (USD Billion)
TABLE 12. Asia-Pacific market estimates & forecasts, 2022–2032 (USD Billion)
TABLE 13. Latin America market estimates & forecasts, 2022–2032 (USD Billion)
TABLE 14. Middle East & Africa market estimates & forecasts, 2022–2032 (USD Billion)
TABLE 15. Global competitive landscape—company market shares (2023)
TABLE 16. Global market key trend impact assessment
TABLE 17. Global market Porter’s Five Forces summary
TABLE 18. Global market PESTEL analysis summary
TABLE 19. Top investment opportunities and strategies
TABLE 20. Research methodology and data sources

List Of Figures

LIST OF FIGURES

- FIG 1. Global Drone Detection market, research methodology
- FIG 2. Market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Key trends shaping Drone Detection (2023)
- FIG 5. Growth prospects 2022–2032
- FIG 6. Porter's Five Forces model
- FIG 7. PESTEL analysis
- FIG 8. Value chain analysis
- FIG 9. Market by Technology, 2022 & 2032
- FIG 10. Market by Platform, 2022 & 2032
- FIG 11. Market by End Use, 2022 & 2032
- FIG 12. Market by Range, 2022 & 2032
- FIG 13. Regional snapshot 2022 & 2032
- FIG 14. North America market 2022 & 2032
- FIG 15. Europe market 2022 & 2032
- FIG 16. Asia-Pacific market 2022 & 2032
- FIG 17. Latin America market 2022 & 2032
- FIG 18. Middle East & Africa market 2022 & 2032
- FIG 19. Company market share analysis (2023)
- FIG 20. Future outlook and emerging trends

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