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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

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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.

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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:

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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

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- 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.

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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

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