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Global Unmanned Airborne Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Unmanned Airborne Radar market size is expected to reach $ 401 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

In 2025, global unmanned airborne radar production capacity is 80,000 units, with production reached approximately 62,000 units, with an average global market price of around US$ 4,000 per unit. The market gross margin is mainly 35%-50%. Unmanned Airborne Radar refers to radar systems specifically designed to be mounted on unmanned aerial vehicles (UAVs) for aerial surveillance, reconnaissance, mapping, and target detection. These radar systems typically adopt compact and lightweight designs to meet the payload and power constraints of UAV platforms while maintaining high detection accuracy and reliability. Common radar types used in UAV applications include synthetic aperture radar (SAR), ground moving target indication (GMTI) radar, maritime surveillance radar, and weather radar. Compared with traditional manned airborne radar systems, unmanned airborne radar focuses more on miniaturization, low power consumption, and high integration. It enables UAVs to perform long-duration monitoring tasks under various environmental conditions, including day and night operations and adverse weather. These systems are widely applied in military intelligence, border surveillance, disaster monitoring, environmental observation, maritime patrol, and infrastructure inspection, providing critical situational awareness and data acquisition capabilities.

The upstream of the unmanned airborne radar industry chain mainly includes microwave semiconductor devices, radio frequency (RF) modules, antennas, radar signal processors, electronic components, and high-performance materials such as composite structures and thermal management components. Key technologies include phased array antenna design, microwave integrated circuits, signal processing

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algorithms, and lightweight structural integration. The midstream consists of radar system design, module integration, software development, system calibration, and testing conducted by radar equipment manufacturers. These processes determine the detection performance, imaging resolution, and operational reliability of airborne radar systems. The downstream market mainly includes defense agencies, border security organizations, environmental monitoring institutions, maritime authorities, and industrial inspection service providers. In addition to equipment procurement, the market also includes system integration services, data processing platforms, and maintenance support, forming a comprehensive ecosystem around UAV-based radar applications.

The unmanned airborne radar market is expanding rapidly as unmanned aerial systems become increasingly important in both defense and civilian applications. One of the primary drivers is the growing demand for persistent surveillance and reconnaissance capabilities. UAV platforms equipped with radar systems can operate for long durations and provide high-resolution imaging and target detection even under challenging environmental conditions such as darkness, fog, or cloud cover. This capability is particularly valuable for border security, maritime monitoring, and battlefield intelligence operations.

In the civilian sector, unmanned airborne radar is gaining traction in environmental monitoring, disaster management, and infrastructure inspection. Synthetic aperture radar mounted on UAVs enables high-resolution terrain mapping and disaster assessment, supporting applications such as flood monitoring, landslide detection, and forest resource management. At the same time, technological advancements in phased array radar, semiconductor devices, and onboard computing systems are improving radar performance while reducing system weight and power consumption, enabling broader deployment across various UAV platforms and expanding the overall market potential.

This report studies the global Unmanned Airborne Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Unmanned Airborne Radar and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Unmanned Airborne Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study

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Global Unmanned Airborne Radar total production and demand, 2021-2032, (K Units)
Global Unmanned Airborne Radar total production value, 2021-2032, (USD Million)
Global Unmanned Airborne Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Unmanned Airborne Radar consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Unmanned Airborne Radar domestic production, consumption, key domestic manufacturers and share
Global Unmanned Airborne Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Unmanned Airborne Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Unmanned Airborne Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Unmanned Airborne Radar market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Northrop Grumman, Lockheed Martin, Raytheon, IAI, Thales, Saab, Telephonics, L3Harris Technologies, Leonardo, RCG, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Unmanned Airborne Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (K Units) and average price (US$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Unmanned Airborne Radar Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Unmanned Airborne Radar Market, Segmentation by Type:

X-band Radar

Ku-band Radar

Ka-band Radar

L-band Radar

Others

Global Unmanned Airborne Radar Market, Segmentation by Antenna Technology:

Active Electronically Scanned Array (AESA) Radar

Passive Electronically Scanned Array (PESA) Radar

Global Unmanned Airborne Radar Market, Segmentation by Platform Type:

Fixed-wing UAV Radar

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Rotary-wing (Helicopter) UAV Radar

Global Unmanned Airborne Radar Market, Segmentation by Application:

Military Reconnaissance

Border Patrol

Disaster Monitoring

Environmental Observation

Marine Patrol

Infrastructure Inspection

Others

Companies Profiled:

Northrop Grumman

Lockheed Martin

Raytheon

IAI

Thales

Saab

Telephonics

L3Harris Technologies

Leonardo

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RCG

Key Questions Answered:

1. How big is the global Unmanned Airborne Radar market?
2. What is the demand of the global Unmanned Airborne Radar market?
3. What is the year over year growth of the global Unmanned Airborne Radar market?
4. What is the production and production value of the global Unmanned Airborne Radar market?
5. Who are the key producers in the global Unmanned Airborne Radar market?
6. What are the growth factors driving the market demand?

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