

# Growing Investment in UAVs: A Key Driver Transforming the Synthetic Aperture Radar Market 2024

*The Business Research Company has updated its global market reports with latest data for 2024 and projections up to 2033*

LONDON, GREATER LONDON , UNITED KINGDOM, October 25, 2024  
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Synthetic Aperture Radar Global Market Report 2024  
– Market Size, Trends, And Global Forecast 2024-2033

The synthetic aperture radar market will grow rapidly from \$4.36 billion in 2023 to \$4.97 billion in 2024, with a CAGR of 13.9%. Military applications, earth observation, infrastructure development, and natural resource management are key growth drivers.



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What Is the Estimated Growth Rate and Market Size of the Global Synthetic Aperture Radar Market?

The synthetic aperture radar (SAR) market is projected to grow rapidly, reaching \$8.29 billion in 2028 at a compound annual growth rate (CAGR) of 13.7%. Key drivers include climate change monitoring, smart city developments,

precision agriculture, disaster response, and GNSS augmentation. Significant trends during the forecast period will focus on persistent surveillance and monitoring, SAR's role in environmental monitoring and climate studies, its application in disaster management and emergency response, expansion into maritime surveillance, and collaborations for SAR data sharing and global coverage.

Explore Comprehensive Insights Into The Global Synthetic Aperture Radar Market With A Detailed Sample Report:

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## What Is The Primary Growth Driver Of The Synthetic Aperture Radar Market?

Increased investment in UAVs for surveillance and military operations is contributing to the market's growth. Drones have become essential tools for monitoring and communicating potential hazards. For example, in 2021, the Indian government announced plans to procure 30 armed Predator drones from the U.S. at a cost of approximately \$3 billion. This focus on UAV technology for surveillance is expected to drive the market forward.

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## Which Market Leaders Are Behind the Growth of the Synthetic Aperture Radar Market?

Major companies operating in the market report are Raytheon Technologies Corporation, Airbus Defence and Space S.A.S., Lockheed Martin Corporation, German Aerospace Center, Northrop Grumman Corporation, BAE Systems plc, Thales Group, L3Harris Technologies Inc., Leonardo S.p.A., General Atomics Aeronautical Systems Inc., Israel Aerospace Industries Ltd., Saab AB, SAR Aero Inc., Cobham plc, Aselsan A.S., OHB SE, MacDonald Dettwiler and Associates Ltd., ICEYE Oyj, Intellisense Systems Inc., Capella Space Corporation, IMSAR LLC, Azavea Inc., EarthDaily Analytics Corporation, Orbital Insight Inc., SRC Inc., MetaSensing B.V., MetaSensing Group

## What Key Trends Are Impacting The Size Of The Synthetic Aperture Radar Market?

Major companies in the market are innovating with products like drone-based synthetic aperture radar (SAR) systems to broaden their customer bases and enhance sales. In August 2023, GalaxEye Space, an Indian space tech startup, launched an aerial drone-based SAR system capable of delivering high-resolution, all-weather imaging. This groundbreaking technology utilizes proprietary data fusion to overcome atmospheric limitations, establishing GalaxEye as a leader in this advanced imaging field.

## [How Is The Global Synthetic Aperture Radar Market Segmented?](#)

The synthetic aperture radar market covered in this report is segmented –

- 1) By Component: Receiver, Transmitter, Antenna
- 2) By Platform: Airborne, Ground
- 3) By Mode: Single Mode, Multimode
- 4) By Frequency Band: X Band, L Band, C Band, S Band, K, Ku, Ka Band, UHF/VHF Band
- 5) By Application: Military and Defense, Monitoring and Exploration

## Regional Insights: North America Paving the Way in the Synthetic Aperture Radar Market

North America was the largest region in the market in 2023. Asia-Pacific is expected to be the fastest-growing region in the forecast period. The regions covered in the market report are Asia-Pacific, Western Europe, Eastern Europe, North America, South America, Middle East, Africa.

## [Synthetic Aperture Radar Market Definition](#)

A synthetic aperture radar (SAR) is an active sensor that emits microwave signals and receives the backscattered signals from the Earth's surface. This technology produces high-resolution images, providing fine details from resolution-limited radar systems.

The Synthetic Aperture Radar Global Market Report 2024 from The Business Research Company includes the following key information:

- Market size data for both historical and future periods
- Analysis of both macro and microeconomic factors that have impacted the market over the past five years
- Regional market analysis covering Asia-Pacific, China, Western Europe, Eastern Europe, North America, the USA, South America, and the Middle East and Africa
- Country-specific market analysis for Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, the UK, and the USA.

Overview of the Global Synthetic Aperture Radar Market Report: Trends, Opportunities, Strategies, and More

The Synthetic Aperture Radar Global Market Report 2024 from The Business Research Company is an extensive resource that delivers insights into synthetic aperture radar market size, synthetic aperture radar market drivers and trends, synthetic aperture radar market major players, synthetic aperture radar competitors' revenues, synthetic aperture radar market positioning, and synthetic aperture radar market growth across geographies. This report provides valuable in-depth insights into potential opportunities and strategies. Companies can utilize the information presented to target segments with the greatest growth potential.

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