

Military Radar Market Size, Share & Trends Analysis Report By Radar (Ground-based, Naval, Airborne, Space based), By Component (Antenna, Transmitter, Receiver), By Application, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Military Radar Market Growth & Trends

The global military radar market size is expected to reach USD 2.14 billion in 2030 and is projected to grow at a CAGR of 5.1% from 2025 to 2030. The escalated demand for improving border safety is anticipated to propel growth in the security & surveillance systems and equipment, such as military radars. Radar systems used in the military sector are further used for weapon guidance, controlling air traffic, and air collision avoidance. Military radars are extensively used in missile guidance techniques, such as Active Radar Homing (ARH) and Semi-Active Radar Homing (SARH), as these systems help in the accurate target detection tracking.

The growing demand for military radars for the guidance of missile systems is expected to propel the demand over the next eight years. The need for high-resolution imaging radars for detecting fixed and moving targets on the battlefield is further anticipated to fuel growth in the industry. The wide-scale adoption of military radars for aircraft collision avoidance is anticipated to contribute to industry expansion.

The growth in the market is highly susceptible to the prevailing economic conditions. The after-effects of the global recession have greatly impacted the military spending across the world, which is a significant factor responsible for driving down the growth

opportunities in the industry. The European countries, such as the UK, Germany, and Russia, have experienced cuts in military budgets owing to the financial crisis and macroeconomic conditions. Another key factor affecting the growth of military radars is the cost of developing space-based radars, which demand extensive spending on R&D activities and manufacturing.

Military Radar Market Report Highlights

The ground-based segment dominated the market with a revenue share of 35.8% in 2024. The escalated demand for intelligent ground surveillance and the wide-scale deployment of radar systems to curb border infiltration activities and enhance border control can be attributed as the major factors favorably impacting the demand for ground-based radars.

The antenna segment dominated the market with the largest revenue share in 2024.

The air and missile defense segment dominated the market with the largest revenue share in 2024, driven by rising global security threats.

North America military radar market dominated the global market with a revenue share of 39.6% in 2024, reflecting its strong defense infrastructure and technological capabilities.

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