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Global Weather Surveillance Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Weather Surveillance Radar market size is expected to reach $ 2234 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Weather Surveillance Radar is a ground-based or platform-mounted remote sensing system that uses microwave radio waves to detect, track, and analyze atmospheric phenomena such as precipitation, storm structures, wind fields, and severe weather systems in real time. It measures the intensity, motion, and distribution of hydrometeors (rain, snow, hail) by analyzing returned radar echoes, enabling short-term weather forecasting, severe storm warning, aviation safety monitoring, and climate observation. Modern systems often integrate Doppler technology to estimate velocity fields and dual-polarization to improve precipitation classification accuracy.

The Weather Surveillance Radar industry chain consists of upstream suppliers providing key components such as microwave transmitters, magnetrons, solid-state power amplifiers, phased array antennas, semiconductors, signal processors, and precision mechanical systems, while midstream manufacturers integrate these components into radar systems, develop software algorithms, and perform system calibration, testing, and deployment engineering, and downstream end users including meteorological agencies, aviation authorities, military organizations, disaster management departments, and research institutions utilize radar outputs for real-time weather monitoring, forecasting, and risk mitigation, with value-added services such as data analytics, satellite integration, and cloud-based meteorological platforms further extending the ecosystem across global atmospheric observation networks.
Global Weather Surveillance Radar projects under construction and planning are primarily driven by national meteorological modernization programs, including large-

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scale deployments of next-generation Doppler and phased array radar networks across North America, Europe, and Asia-Pacific, with major initiatives focused on replacing aging S-band systems, expanding low-level wind shear detection coverage near airports, enhancing flood early warning systems in river basins, and integrating radar networks with satellite meteorology platforms, while emerging economies invest in regional radar grids for disaster risk reduction, and defense agencies upgrade dual-use meteorological surveillance infrastructure, supported by public-private partnerships and long-term climate resilience investment programs.

2025 Global Market Average Gross Profit Margin: 38%.

The Weather Surveillance Radar market is undergoing a structural upgrade driven by the transition from conventional single-polarization systems to advanced dual-polarization and phased array architectures. Dual-polarization radar has become a key technological inflection point, enabling simultaneous transmission and reception of horizontal and vertical waveforms, which significantly improves precipitation classification accuracy, including differentiation between rain, snow, hail, and mixed-phase hydrometeors. This capability is increasingly critical for aviation safety, flood forecasting, and severe storm detection. At the same time, phased array radar technology is gaining attention due to its ability to perform near-instantaneous electronic beam steering, enabling higher temporal resolution and faster storm tracking compared to mechanically scanned systems. These technological improvements are reshaping procurement priorities for national meteorological agencies and defense users. Market development is strongly supported by climate change-induced weather variability, which is increasing both the frequency and intensity of extreme weather events globally.

Governments are prioritizing modernization of legacy radar networks, particularly in North America, Japan, China, and parts of Europe. Replacement cycles are being shortened as older S-band and C-band systems fail to meet modern resolution requirements. Another major trend is system integration, where radar data is fused with satellite, IoT weather stations, and AI-based predictive models to build comprehensive meteorological decision platforms. The aviation sector remains a high-value application segment, especially for wind shear detection and airport micro-weather monitoring. Hydrological applications are expanding rapidly as governments seek better flood prediction and water resource management capabilities. However, the market remains highly capital-intensive, with long sales cycles and heavy reliance on public funding. Supply chain constraints in RF components, semiconductors, and high-precision antennas can impact delivery timelines.

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Competitive dynamics are concentrated among a small number of global OEMs with strong government relationships and long-term maintenance contracts. Emerging economies are increasingly investing in regional radar coverage, though cost sensitivity leads to a preference for X-band and compact radar systems. Overall, the market is shifting from standalone radar hardware toward integrated, software-driven, multi-sensor atmospheric intelligence ecosystems.

This report studies the global Weather Surveillance Radar demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Weather Surveillance 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 Weather Surveillance Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Weather Surveillance Radar total market, 2021-2032, (USD Million)
Global Weather Surveillance Radar total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Weather Surveillance Radar total market, key domestic companies, and share, (USD Million)
Global Weather Surveillance Radar revenue by player, revenue and market share 2021-2026, (USD Million)
Global Weather Surveillance Radar total market by Deployment Platform Type, CAGR, 2021-2032, (USD Million)
Global Weather Surveillance Radar total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Weather Surveillance Radar market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Enterprise Electronics Corporation, Vaisala, Raytheon Technologies (Collins Aerospace), Leonardo (Selex ES GmbH), Vaisala, Honeywell, Beijing Minshida Radar Co., Ltd, Furuno, Enterprise Electronics Corporation (EEC), EWR Weather Radar, etc.

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

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Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Weather Surveillance Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Deployment Platform 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 Weather Surveillance Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Weather Surveillance Radar Market, Segmentation by Deployment Platform Type:

Ground-Based

Airborne

Shipborne

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Global Weather Surveillance Radar Market, Segmentation by Scanning Technology Type:

- Mechanical Scanning
- Phased Array
- Electronically Scanned
- Hybrid Scanning

Global Weather Surveillance Radar Market, Segmentation by Frequency Band Type:

- S Band
- C Band
- X Band
- Ka Band

Global Weather Surveillance Radar Market, Segmentation by Application:

- National Meteorological Agencies
- Civil Aviation Authorities
- Military Defense Organizations
- Airport Operators
- Water Resource Departments
- Others

Companies Profiled:

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Enterprise Electronics Corporation

Vaisala

Raytheon Technologies (Collins Aerospace)

Leonardo (Selex ES GmbH)

Vaisala

Honeywell

Beijing Minshida Radar Co., Ltd

Furuno

Enterprise Electronics Corporation (EEC)

EWR Weather Radar

Lockheed Martin

Baron Weather

GAMIC mbH

WHOLE SENSE RADAR

Naruida

Key Questions Answered

1. How big is the global Weather Surveillance Radar market?
2. What is the demand of the global Weather Surveillance Radar market?
3. What is the year over year growth of the global Weather Surveillance Radar market?
4. What is the total value of the global Weather Surveillance Radar market?
5. Who are the Major Players in the global Weather Surveillance Radar market?
6. What are the growth factors driving the market demand?

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