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

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Abstracts

The global Doppler Weather Radar market size is expected to reach $ 1966 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Doppler Weather Radar is a meteorological radar system that uses the Doppler effect to measure both the reflectivity and radial velocity of precipitation particles, enabling detection of storm structure, intensity, movement, and wind patterns within weather systems. By analyzing frequency shifts in returned radar signals, it can identify wind shear, tornado signatures, storm rotation, and precipitation dynamics in real time. It is widely used for severe weather monitoring, aviation safety, flood forecasting, and nowcasting applications.

The Doppler Weather Radar industry chain includes upstream suppliers providing critical components such as microwave transmitters, solid-state power amplifiers, magnetrons, phased array antennas, RF front-end modules, semiconductors, high-speed digital processors, and precision mechanical systems, while midstream manufacturers integrate these components into complete radar systems, develop Doppler signal processing software, perform calibration, testing, and system integration, and provide maintenance and upgrade services, and downstream users such as meteorological agencies, aviation authorities, military organizations, hydrology departments, disaster management agencies, and research institutions utilize radar data for real-time weather monitoring, severe storm detection, forecasting, and climate analysis across global observation networks.

Doppler Weather Radar projects under construction and planning are primarily driven by global meteorological modernization programs, including nationwide radar network upgrades in the United States, China, Japan, and Europe, with focus on replacing aging

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single-polarization systems with dual-polarization Doppler radar, expanding low-level wind shear detection near airports, enhancing flood forecasting coverage in river basins, and deploying mobile and X-band radar systems for urban disaster monitoring, while emerging economies invest in regional radar grids for climate resilience, supported by public funding, defense modernization initiatives, and integration with satellite-based Earth observation and AI-driven weather prediction platforms.

2025 Global Market Average Gross Profit Margin: 40%.

The Doppler Weather Radar market is a core segment of global meteorological infrastructure, driven by the need for high-accuracy real-time storm detection and wind field measurement. Its adoption is closely linked to increasing climate variability and the rising frequency of extreme weather events. Governments remain the dominant buyers, with national meteorological agencies accounting for the largest share of procurement. Aviation safety requirements, particularly wind shear and turbulence detection, continue to be a critical demand driver.

The market is experiencing a strong technology shift from traditional magnetron-based systems to solid-state and phased array Doppler radar. Dual-polarization capability has become a baseline expectation in new installations, improving precipitation classification accuracy. Integration with AI-based nowcasting and numerical weather prediction systems is accelerating, enabling faster and more localized forecasting. Replacement demand from aging radar infrastructure in developed economies is a major contributor to stable market growth. Emerging economies are expanding radar coverage rapidly, although budget constraints often lead to phased or hybrid deployments.

The competitive landscape is highly consolidated, with a few global OEMs dominating high-end system supply and lifecycle services. Long procurement cycles and strict government certification requirements create high barriers to entry for new competitors. Defense applications are expanding due to dual-use requirements for national security and disaster preparedness. Supply chain dependence on RF components and semiconductor availability introduces cost and delivery risks. Technological innovation is focused on higher spatial-temporal resolution, faster scan rates, and improved clutter suppression algorithms.

Overall, the market is transitioning toward integrated atmospheric intelligence platforms combining radar, satellite, and AI analytics into unified decision systems.

This report studies the global Doppler Weather Radar demand, key companies, and key

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regions.

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

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

This report profiles major players in the global Doppler Weather 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.

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

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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 Doppler Weather Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Ground-Based

Airborne

Shipborne

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

Mechanical Scanning

Phased Array

Electronically Scanned

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Hybrid Scanning

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

S Band

C Band

X Band

Ka Band

Global Doppler Weather Radar Market, Segmentation by Application:

National Meteorological Agencies

Civil Aviation Authorities

Military Defense Organizations

Airport Operators

Water Resource Departments

Others

Companies Profiled:

Enterprise Electronics Corporation

Vaisala

Raytheon Technologies (Collins Aerospace)

Leonardo (Selex ES GmbH)

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

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