

Global Offshore Wind Bird Monitoring System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Offshore Wind Bird Monitoring System market size is expected to reach \$ 249 million by 2032, rising at a market growth of 10.3% CAGR during the forecast period (2026-2032).

Offshore Wind Bird Monitoring Systems are integrated environmental monitoring solutions used in offshore wind farms to detect, identify, track, and assess bird activity around turbines and project areas. These systems usually combine marine radar, high-resolution cameras, thermal imaging, acoustic sensors, AI recognition software, data processing platforms, and remote communication modules. They support bird migration monitoring, flight path analysis, collision risk assessment, environmental impact evaluation, and regulatory compliance reporting. The systems are mainly deployed during offshore wind project development, construction, operation, and ecological monitoring phases, helping operators balance renewable energy development with biodiversity protection and environmental management requirements. The industrial chain of Offshore Wind Bird Monitoring Systems includes upstream components such as radar modules, optical cameras, thermal imagers, acoustic sensors, edge computing units, communication equipment, power supply systems, mounting structures, marine-grade enclosures, and AI algorithms. The midstream covers system integration, sensor calibration, data platform development, offshore installation, environmental model configuration, monitoring workflow design, and field commissioning. Downstream users mainly include offshore wind farm owners, project developers, turbine operators, environmental consultants, marine engineering contractors, research institutions, and regulatory monitoring bodies. Supporting services include ecological survey design, data annotation, species identification, maintenance, software upgrades, reporting, compliance consulting, and long-term monitoring operations. In 2025, global Offshore Wind Bird Monitoring System production reached approximately 281 systems, with an

average global market price of around US\$420,000 per system. The gross profit margin of major companies in the industry is between 35%-55%. In 2025, the global production capacity of Offshore Wind Bird Monitoring System was approximately 375 systems.

The Offshore Wind Bird Monitoring System market is growing steadily as offshore wind development expands and environmental approval requirements become stricter. Bird migration, collision risk, habitat disturbance, and biodiversity protection are key concerns in offshore wind permitting and operation. Monitoring systems that combine radar, camera, thermal imaging, acoustic sensing, and AI analytics can provide continuous data on bird movement, flight altitude, species behavior, and turbine-area activity. Demand is strongest in Europe, North America, China, Japan, South Korea, and Taiwan, where offshore wind projects face detailed environmental assessment and long-term ecological monitoring requirements. Compared with manual surveys, automated systems provide higher monitoring frequency, better traceability, and improved compliance documentation. The market is still relatively specialized, but growth is supported by offshore wind expansion, digital environmental management, and stricter ESG requirements. Suppliers with marine-grade hardware, accurate AI recognition, reliable data platforms, and ecological consulting capability are more competitive.

This report studies the global Offshore Wind Bird Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Offshore Wind Bird Monitoring System 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 Offshore Wind Bird Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Offshore Wind Bird Monitoring System total production and demand, 2021-2032, (Units)

Global Offshore Wind Bird Monitoring System total production value, 2021-2032, (USD Million)

Global Offshore Wind Bird Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Offshore Wind Bird Monitoring System consumption by region & country, CAGR,

2021-2032 & (Units)

U.S. VS China: Offshore Wind Bird Monitoring System domestic production, consumption, key domestic manufacturers and share

Global Offshore Wind Bird Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Offshore Wind Bird Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Offshore Wind Bird Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Offshore Wind Bird Monitoring System 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 Spoor AS, DeTect, Inc., Robin Radar Systems B.V., Bioseco S.A., DHI A/S, Boulder Imaging, Inc., Fugro N.V., DTBird, Biodiv-Wind, nvisionist, 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 Offshore Wind Bird Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Offshore Wind Bird Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Offshore Wind Bird Monitoring System Market, Segmentation by Type:

Radar-Based Bird Monitoring System

Camera-Based Bird Monitoring System

Multi-Sensor Bird Monitoring System

Global Offshore Wind Bird Monitoring System Market, Segmentation by Deployment Type:

Fixed-Platform Bird Monitoring System

Buoy-Mounted Bird Monitoring System

Turbine-Mounted Bird Monitoring System

Global Offshore Wind Bird Monitoring System Market, Segmentation by Detection Range:

Below 1 km Detection Range

1-5 km Detection Range

Above 5 km Detection Range

Global Offshore Wind Bird Monitoring System Market, Segmentation by Application:

Pre-Construction Environmental Assessment

Operational Collision Risk Monitoring

Others

Companies Profiled:

Spoor AS

DeTect, Inc.

Robin Radar Systems B.V.

Bioseco S.A.

DHI A/S

Boulder Imaging, Inc.

Fugro N.V.

DTBird

Biodiv-Wind

nvisionist

Swiss Birdradar Solution AG

Japan Weather Association

Chongqing Yingka Electronics Co., Ltd.

Beijing Sinotech Going Sci.And Tech. Co., Ltd.

Key Questions Answered:

1. How big is the global Offshore Wind Bird Monitoring System market?
2. What is the demand of the global Offshore Wind Bird Monitoring System market?
3. What is the year over year growth of the global Offshore Wind Bird Monitoring System market?
4. What is the production and production value of the global Offshore Wind Bird Monitoring System market?
5. Who are the key producers in the global Offshore Wind Bird Monitoring System market?
6. What are the growth factors driving the market demand?

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