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Global Offshore Wind Bird Monitoring System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Offshore Wind Bird Monitoring System market size was valued at US$ 121 million in 2025 and is forecast to a readjusted size of US$ 249 million by 2032 with a CAGR of 10.3% during review period.

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,

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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 is a detailed and comprehensive analysis for global Offshore Wind Bird Monitoring System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Offshore Wind Bird Monitoring System market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Offshore Wind Bird Monitoring System market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling

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prices (US$/Unit), 2021-2032

Global Offshore Wind Bird Monitoring System market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (US$/Unit), 2021-2032

Global Offshore Wind Bird Monitoring System market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Offshore Wind Bird Monitoring System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Offshore Wind Bird Monitoring System market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Offshore Wind Bird Monitoring System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

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Radar-Based Bird Monitoring System

Camera-Based Bird Monitoring System

Multi-Sensor Bird Monitoring System

Market segment by Deployment Type

Fixed-Platform Bird Monitoring System

Buoy-Mounted Bird Monitoring System

Turbine-Mounted Bird Monitoring System

Market segment by Detection Range

Below 1 km Detection Range

1-5 km Detection Range

Above 5 km Detection Range

Market segment by Application

Pre-Construction Environmental Assessment

Operational Collision Risk Monitoring

Others

Major players covered

Spoor AS

DeTect, Inc.

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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.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

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The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Offshore Wind Bird Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Offshore Wind Bird Monitoring System, with price, sales quantity, revenue, and global market share of Offshore Wind Bird Monitoring System from 2021 to 2026.

Chapter 3, the Offshore Wind Bird Monitoring System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Offshore Wind Bird Monitoring System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Offshore Wind Bird Monitoring System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Offshore Wind Bird Monitoring System.

Chapter 14 and 15, to describe Offshore Wind Bird Monitoring System sales channel, distributors, customers, research findings and conclusion.

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Contents

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3 COMPETITIVE ENVIRONMENT: OFFSHORE WIND BIRD MONITORING SYSTEM BY MANUFACTURER

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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