

# Global Marine Wave Radars 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 Marine Wave Radars market size was valued at US\$ 47.13 million in 2025 and is forecast to a readjusted size of US\$ 86.84 million by 2032 with a CAGR of 9.1% during review period.

Marine wave radar, in the current engineering and observation systems, remains a relatively small-scale, engineering-oriented device, with a price level significantly lower than military or high-end surveillance radars. In 2025, the global annual new installations of marine wave radar are projected to be approximately 12,400 units, a considerable portion of which will come from standardized configurations in ports, offshore engineering projects, offshore wind farms, and shore-based observation points. The price per unit is around US\$3,700, primarily for software-based or lightly modified solutions built on X-band navigation radar platforms with added wave inversion algorithms. In high-end engineering and energy scenarios, systems with higher stability, dedicated antennas, algorithm licensing, and long-term service can reach a delivery price of US\$15,000-30,000 per unit, but these represent a limited proportion. Overall, the system-level gross profit margin for these products is approximately 30%-45%, significantly lower than military radars but higher than ordinary navigation radar systems. Typical usage includes: one wave radar unit per port or critical waterway node; one to two units per offshore wind farm substation or construction base port; and two to four units deployed in large offshore engineering or oil and gas operation areas based on coverage requirements, creating a continuous demand for replacement and expansion.

## Supply Chain

The upstream supply chain for marine wave radars primarily includes: high-stability RF power amplifiers and microwave components, radar antennas and rotation/stabilization mechanisms, high-speed signal processing chips and industrial computing units, corrosion-resistant metal and composite material housings, high-reliability marine-grade connectors and cables, and algorithmic software and embedded systems. The combined costs of raw materials, precision manufacturing, system integration, and software development typically account for 55%–70% of the total system cost. RF stability, antenna consistency, and long-term reliability in marine environments directly determine system performance and engineering acceptance. Typical upstream suppliers include: Analog Devices, Infineon, NXP Semiconductors, Rohde & Schwarz, and TE Connectivity, which define the cost and technological boundaries in terms of RF performance, long-term supply, and industrial-grade reliability.

### Manufacturer Characteristics

Radac, Miros, and Rutter have the deepest experience in engineering-grade wave radars and quantitative inversion algorithms, and their products have been widely incorporated into European and North American engineering and port specifications; Furuno, Garmin, and Raymarine, on the other hand, rely more on mature navigation radar platforms, entering the wave monitoring application market through algorithmic and system upgrades; Chinese manufacturers are gradually increasing their market share in the port and offshore engineering markets.

### Case Study

In 2024, a North Sea country issued tender documents for a new offshore wind farm and waterway safety monitoring project, explicitly requiring the deployment of Marine Wave Radars at substations and key waterway nodes to continuously obtain significant wave height, dominant wave direction, and period data. The requirements included a coverage radius of at least 3 km, a data refresh cycle of <math>\leq 3</math> minutes, and the ability for the system to operate year-round in strong winds, rain, snow, and high humidity and salt spray environments, and to interface with existing sea state warning and operational decision-making systems. The project ultimately adopted Radac (Delft)'s wave radar system as the core equipment, combined with Miros' wave inversion and quality control algorithms, and supplemented with Rutter's radar processing solutions on some offshore platforms. A total of 18 wave radar systems were deployed, becoming the standard configuration for subsequent offshore wind power and port engineering projects in that country.

## Applications

Marine Wave Radar is primarily used in: sea state monitoring around offshore wind farms and substations, port and waterway safety management, operational decision-making for offshore oil and gas and Floating Production Storage and Offloading (FPSO) units, assessment of construction and lifting windows for offshore engineering projects, long-term observation of coastal and offshore sea conditions, and research on wave evolution and extreme sea states by research institutions. Typical downstream customers include: national marine and meteorological agencies, port authorities and waterway administrations, offshore wind power developers and operators, international oil and gas companies, and large offshore engineering and marine equipment contractors, such as NOAA, Ørsted, Equinor, Shell, and DNV.

## Breakthrough Strategy

For Marine Wave Radar manufacturers, the real breakthrough direction is not to continue making radar hardware 'more expensive and more complex,' but to transform wave radar from an 'optional monitoring device' into a 'default data node in engineering and operational systems.' Specifically, the first step is to proactively engage in application-side specifications: focusing on high-frequency decision-making scenarios such as port operation window assessment, offshore wind turbine lifting safety, and waterway navigation restrictions, directly mapping the significant wave height, dominant wave direction, and period indicators output by the radar to engineering rules for 'whether operations are feasible,' thus ensuring that owners mandate the use of wave radar data in tender documents and operating procedures; the second step is to lower the product form, no longer emphasizing 'dedicated radar,' but transforming the wave inversion capability into a quickly deployable 'radar + algorithm module' that can be directly mounted on existing shipborne or shore-based X-band radar platforms, entering projects with incremental costs of a few thousand dollars, rapidly expanding the accessible market; the third step is to shift from one-time equipment sales to project-based and service-bound models, extending the lifecycle revenue of a single unit through algorithm licensing, data interface subscriptions, operation and maintenance support, and annual calibration services, rather than competing directly with navigation radar on hardware unit price; the fourth step is systematic bundled sales, packaging Marine Wave Radar with buoys, wave acceleration sensors, weather stations, or port dispatch systems as a complete 'sea state sensing subsystem,' making the radar no longer an isolated procurement item, but an indispensable part of the system. Through the above approach, manufacturers can significantly increase installation volume,

project penetration, and long-term revenue without a significant increase in the unit price. This is the most realistic and replicable breakthrough strategy in the low-unit-price, engineering-oriented market of Marine Wave Radar.

## Market Influences

The growth of the Marine Wave Radar market is driven, on the one hand, by the increasing intensity of offshore wind power, port upgrades, and marine engineering activities ? the further offshore and deeper the engineering projects extend, the greater the reliance on non-contact, area-based, real-time wave data. On the other hand, the increasing frequency of extreme weather events and rising safety and compliance requirements are leading port and energy operators to increasingly adopt wave radar as the 'front-end sensing layer' for operational decision-making. Regionally, Europe continues to lead in standards and demand in the port and offshore wind power sectors, North America maintains stability in research and oil and gas applications, while China, with the intelligentization of ports and the large-scale construction of offshore wind farms, is becoming the fastest-growing market for new installations. In terms of cost and competition, radio frequency and algorithms constitute the core barriers. The scope for simple hardware price competition is limited, instead driving leading manufacturers to secure project lifecycle value through system integration, software licensing, and long-term service contracts. Overall, marine wave radar will remain a specialized niche market driven by engineering projects, with gradually solidifying standards and slowly increasing concentration. Its growth logic is highly correlated with investment in marine infrastructure.

This report is a detailed and comprehensive analysis for global Marine Wave Radars market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Operating Frequency Band 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 Marine Wave Radars market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Marine Wave Radars market size and forecasts by region and country, in

consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Marine Wave Radars market size and forecasts, by Operating Frequency Band and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Marine Wave Radars market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Marine Wave Radars

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 Marine Wave Radars 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 RS Aqua (Xylem) (Public, Portsmouth, UK), Furuno (Public, Hyogo, Japan), Radac (Private, Delft, Netherlands), Miros (Private, Asker, Norway), Rutter (Public, Newfoundland, Canada), Garmin (Public, Olathe, USA), FutureWaves (Public, Groton, USA), CODAR (Private, Mountain View, USA), Raymarine (Public, Hudson, USA), Wartsila (Public, Helsinki, Finland), etc.

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

### **Market Segmentation**

Marine Wave Radars market is split by Operating Frequency Band and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Operating Frequency Band, 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 Operating Frequency Band

HF-Band

X-Band

#### Market segment by Coverage

?1?2 km

2?6 km

>10 km

#### Market segment by Update Rate

?10 min

2?5 min

?1 min

#### Market segment by Application

Merchant Ships

Offshore Platforms

Land-Based Observation Stations

Others

## Major players covered

RS Aqua (Xylem) (Public, Portsmouth, UK)

Furuno (Public, Hyogo, Japan)

Radac (Private, Delft, Netherlands)

Miros (Private, Asker, Norway)

Rutter (Public, Newfoundland, Canada)

Garmin (Public, Olathe, USA)

FutureWaves (Public, Groton, USA)

CODAR (Private, Mountain View, USA)

Raymarine (Public, Hudson, USA)

Wartsila (Public, Helsinki, Finland)

Sperry Marine (Public, Charlottesville, USA)

Norwegian Subsea (Private, Oslo, Norway)

OceanWise (Private, Alton, UK)

WISE Group (Private, Stavanger, Norway)

Obscape (Private, Delft, Netherlands)

Helzel (Private, Kaltenkirchen, Germany)

Kekan Marine Technology (Private, Yantai, China)

Vic-Ocean (Private, Qingdao, China)

Wellmax (Private, Nanjing, China)

Nortek (Private, Oslo, Norway)

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)

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

Chapter 1, to describe Marine Wave Radars product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Marine Wave Radars, with price, sales quantity, revenue, and global market share of Marine Wave Radars from 2021 to 2026.

Chapter 3, the Marine Wave Radars competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Marine Wave Radars 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 Operating Frequency Band and by Application, with sales market share and growth rate by Operating Frequency Band, 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 Marine Wave Radars market forecast, by regions, by Operating Frequency Band, and by Application, with sales and revenue, from 2027 to 2032.

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

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