

# Global Wave Sensing Radar Market Growth 2026-2032

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## Abstracts

The global Wave Sensing Radar market size is predicted to grow from US\$ 44.80 million in 2025 to US\$ 85.17 million in 2032; it is expected to grow at a CAGR of 9.6% from 2026 to 2032.

Wave sensing 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 wave sensing 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.

The growth of the wave sensing 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.

LP Information, Inc. (LPI) ' newest research report, the “Wave Sensing Radar Industry Forecast” looks at past sales and reviews total world Wave Sensing Radar sales in 2025, providing a comprehensive analysis by region and market sector of projected Wave Sensing Radar sales for 2026 through 2032. With Wave Sensing Radar sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Wave Sensing Radar industry.

This Insight Report provides a comprehensive analysis of the global Wave Sensing Radar landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Wave Sensing Radar portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Wave Sensing Radar market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Wave Sensing Radar and breaks down the forecast by Operating Frequency Band, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Wave Sensing Radar.

This report presents a comprehensive overview, market shares, and growth opportunities of Wave Sensing Radar market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Operating Frequency Band:

HF-Band

X-Band

Segmentation by Coverage:

?1–2 km

2–6 km

>10 km

Segmentation by Update Rate:

?10 min

2–5 min

?1 min

Segmentation by Application:

Merchant Ships

Offshore Platforms

Land-Based Observation Stations

Others

This report also splits the market by region:

## Americas

United States

Canada

Mexico

Brazil

## APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

RS Aqua

Furuno

Radac

Miros

Rutter

Garmin

FutureWaves

CODAR

Raymarine

Wartsila

Sperry Marine

Norwegian Subsea

OceanWise

WISE Group

Obscape

Helzel

Kekan Marine Technology

Vic-Ocean

Wellmax

Nortek

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Wave Sensing Radar market?

What factors are driving Wave Sensing Radar market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Wave Sensing Radar market opportunities vary by end market size?

How does Wave Sensing Radar break out by Operating Frequency Band, by Application?

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