

Global Marine Navigation Wave Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Marine Navigation Wave Radar market size is expected to reach \$ 86.84 million by 2032, rising at a market growth of 9.1% CAGR during the forecast period (2026-2032).

Marine navigation 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 navigation 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.

The growth of the Marine Navigation 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 navigation 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 studies the global Marine Navigation Wave Radar production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Marine Navigation Wave Radar total production and demand, 2021-2032, (K Units)

Global Marine Navigation Wave Radar total production value, 2021-2032, (USD Million)

Global Marine Navigation Wave Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Marine Navigation Wave Radar consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Marine Navigation Wave Radar domestic production, consumption, key domestic manufacturers and share

Global Marine Navigation Wave Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Marine Navigation Wave Radar production by Operating Frequency Band, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Marine Navigation Wave Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Marine Navigation Wave Radar 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 RS Aqua, Furuno, Radac, Miros, Rutter, Garmin, FutureWaves, CODAR, Raymarine, Wartsila, 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 Marine Navigation Wave Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Operating Frequency Band, 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 Marine Navigation Wave Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Marine Navigation Wave Radar Market, Segmentation by Operating Frequency Band:

HF-Band

X-Band

Global Marine Navigation Wave Radar Market, Segmentation by Coverage:

?1?2 km

2?6 km

>10 km

Global Marine Navigation Wave Radar Market, Segmentation by Update Rate:

?10 min

2?5 min

?1 min

Global Marine Navigation Wave Radar Market, Segmentation by Application:

Merchant Ships

Offshore Platforms

Land-Based Observation Stations

Others

Companies Profiled:

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 Answered:

1. How big is the global Marine Navigation Wave Radar market?
2. What is the demand of the global Marine Navigation Wave Radar market?
3. What is the year over year growth of the global Marine Navigation Wave Radar market?
4. What is the production and production value of the global Marine Navigation Wave

Radar market?

5. Who are the key producers in the global Marine Navigation Wave Radar market?

6. What are the growth factors driving the market demand?

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