

Global Pilotage Positioning Radar Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pilotage Positioning Radar Detector market size is expected to reach \$ 1000 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

In 2025, the global annual new installations of pilotage positioning radar detectors are projected to be approximately 126,000 units. The majority of these installations will come from the replacement of existing equipment on commercial vessels, upgrades to fishing vessel radar systems, and new installations on port and offshore engineering vessels. The mainstream price for a single unit is around US\$4,700, primarily for small to medium-power X-band pilotage positioning radar detectors. For high-end commercial vessels, specialized engineering vessels, and military/police support vessels, radar detection systems with higher power, longer detection range, multi-target tracking, and redundant interfaces can cost between US\$8,000 and US\$15,000 per unit. Overall, the gross profit margin for these products is approximately 25%–40%. In terms of typical usage: a small to medium-sized commercial vessel or fishing vessel usually has one pilotage positioning radar detector; large commercial vessels, oil tankers, or container ships generally have two units (X-band + S-band redundancy); and port tugs, engineering vessels, and pilot boats typically have one to two units, creating a continuous and stable replacement market.

The growth of the pilotage positioning radar detector market is supported, on the one hand, by the stable renewal of the global commercial and fishing vessel fleet, and the continuous raising of minimum requirements for radar configuration and performance by the IMO and national maritime safety regulations, making radar detectors a mandatory configuration. On the other hand, the development of offshore wind power, offshore engineering, and intelligent shipping is driving the demand for higher performance and

more intelligent radar detectors. Regionally, Europe and Japan maintain technological and regulatory leadership in the high-end merchant and engineering vessel markets, North America has stable demand in the special vessel and intelligent navigation sectors, while China and Southeast Asia, with their vast fleets of fishing vessels and offshore engineering vessels, are the main sources of global shipment growth. In terms of cost and competition, RF components and algorithmic capabilities remain core barriers to entry, with price wars primarily concentrated in the low-to-medium end market. Leading manufacturers, however, continue to consolidate their market share in the pilotage positioning radar detector market through system integration, certification systems, and long-term service agreements.

This report studies the global Pilotage Positioning Radar Detector production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Pilotage Positioning Radar Detector total production and demand, 2021-2032, (K Units)

Global Pilotage Positioning Radar Detector total production value, 2021-2032, (USD Million)

Global Pilotage Positioning Radar Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Pilotage Positioning Radar Detector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Pilotage Positioning Radar Detector domestic production, consumption, key domestic manufacturers and share

Global Pilotage Positioning Radar Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Pilotage Positioning Radar Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Pilotage Positioning Radar Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Pilotage Positioning Radar Detector 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 Furuno, Rutter, Garmin, Navico Group, Wartsila, JRC, Raymarine, HENSOLDT, Kongsberg, Sperry Marine, 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 Pilotage Positioning Radar Detector 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 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 Pilotage Positioning Radar Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pilotage Positioning Radar Detector Market, Segmentation by Type:

X Band Radars

S Band Radars

Global Pilotage Positioning Radar Detector Market, Segmentation by Structure:

Dome Radar

Array Radar

Global Pilotage Positioning Radar Detector Market, Segmentation by Detection Range:

24nm

32nm

64nm

Others

Global Pilotage Positioning Radar Detector Market, Segmentation by Application:

Merchant Marine

Fishing Vessels

Yacht

Others

Companies Profiled:

Furuno

Rutter

Garmin

Navico Group

Wartsila

JRC

Raymarine

HENSOLDT

Kongsberg

Sperry Marine

Navtech Radar

GEM Elettronica

BAE Systems

Raytheon

Koden Electronics

SI-TEX

CSSC Marine Technology

Dalian Levear Electric

Samyung

JUNLU Technology

ONWA

Humminbird

Key Questions Answered:

1. How big is the global Pilotage Positioning Radar Detector market?
2. What is the demand of the global Pilotage Positioning Radar Detector market?
3. What is the year over year growth of the global Pilotage Positioning Radar Detector market?
4. What is the production and production value of the global Pilotage Positioning Radar Detector market?
5. Who are the key producers in the global Pilotage Positioning Radar Detector market?
6. What are the growth factors driving the market demand?

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