

Global Electronic Cartography Market Size Study & Forecast, by Product Type and Regional Forecasts 2025-2035

<https://marketpublishers.com/r/ED49A03BACEAEN.html>

Date: June 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: ED49A03BACEAEN

Abstracts

The Global Electronic Cartography Market is valued approximately at USD 21.69 billion in 2024 and is anticipated to expand at a steady compound annual growth rate (CAGR) of 1.40% over the forecast period 2025–2035. Electronic cartography—once confined to naval charts and rudimentary GPS applications—has evolved into a cornerstone of navigation and spatial data analysis in both commercial and military domains. The market is being redefined by the growing need for real-time, data-enriched navigation systems, coupled with heightened dependency on geospatial intelligence across transportation, maritime security, aviation, and smart city infrastructure planning. These sophisticated cartographic systems not only bolster safety and route optimization but also underpin strategic decision-making through dynamic geovisualization and interactive mapping interfaces.

Accelerating this paradigm shift is the integration of Artificial Intelligence (AI), satellite imaging, and cloud-based Geographic Information Systems (GIS), which collectively enable continuous updates, predictive route planning, and layered spatial analytics. The defense sector, particularly, is championing the modernization of electronic navigation aids to enhance operational readiness and maritime situational awareness. On the commercial front, logistics, autonomous vehicles, and aviation sectors are leveraging enhanced cartographic data to navigate complex global routes with minimal human intervention. As such, electronic cartography has metamorphosed from a supportive digital map layer into a strategic operational asset.

Regionally, North America leads the global market due to its strong technological ecosystem, early adoption of digital navigation platforms, and the presence of industry giants focused on aerospace, defense, and maritime automation. The U.S. Coast Guard

and Department of Defense have notably ramped up investments in enhanced electronic navigation and digital hydrography. Europe follows closely with its regulatory backing for E-Navigation initiatives across commercial shipping lanes and integration of cartographic data in environmental monitoring. Meanwhile, Asia Pacific is poised for the most substantial growth through 2035, driven by the surging demand for smart transportation, expanding naval capabilities in countries like China, Japan, and South Korea, and the implementation of digital mapping for infrastructure development in rapidly urbanizing economies.

Major market player included in this report are:

Honeywell International Inc.

Garmin Ltd.

Raytheon Technologies Corporation

Furuno Electric Co., Ltd.

Thales Group

Northrop Grumman Corporation

General Dynamics Corporation

Lockheed Martin Corporation

Navico (A Navico Group Company)

GE Aviation

Danelec Marine A/S

L3Harris Technologies, Inc.

IHO (International Hydrographic Organization)

Saab AB

C-MAP (a Navico brand)

Global Electronic Cartography Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

By Product Type:

Strategies

Insights

Developments

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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