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Global Remote Sensing Technology Market Size Study & Forecast, by Type, Application, and Regional Forecasts 2025-2035

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Abstracts

The Global Remote Sensing Technology Market is valued approximately at USD 17.43 billion in 2024 and is expected to register a compelling CAGR of 14.90% over the forecast period 2025-2035. At the heart of this rapidly evolving field, remote sensing has become a linchpin for real-time data acquisition, transforming the way industries interpret spatial phenomena and environmental conditions. By fusing advanced imaging technologies, satellite and aerial platforms, and AI-powered analytics, remote sensing is enabling more granular and predictive insights across critical sectors. Whether it's monitoring agricultural yields or forecasting extreme weather events, the technology is playing a pivotal role in reshaping how organizations harness geospatial intelligence for proactive decision-making.

The market’s momentum is largely propelled by the confluence of rising demand for precision agriculture, climate risk assessment, and national security surveillance. Governments and private stakeholders alike are pouring investments into data acquisition platforms and processing tools to enhance decision accuracy and optimize operations. In agriculture, remote sensing facilitates yield prediction, crop health monitoring, and resource efficiency. Meanwhile, in environmental sciences, it supports carbon mapping, water cycle management, and disaster response modeling. The proliferation of small satellites, the miniaturization of sensors, and cost-efficient UAV platforms have made remote sensing more accessible than ever—paving the way for broader adoption across commercial and defense ecosystems.

North America currently dominates the global remote sensing technology landscape, attributed to its strong presence of space agencies, high defense spending, and advanced R&D infrastructure. The United States, in particular, boasts a robust

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ecosystem of private space tech companies and academic institutions driving technological breakthroughs. Europe follows closely, led by countries like Germany, France, and the UK, which emphasize climate monitoring and smart farming under the EU's Green Deal. However, Asia Pacific is poised to record the fastest growth, driven by expanding satellite constellations, government initiatives such as India's RISAT missions and China's Gaofen series, and escalating demand for agricultural and urban planning insights across emerging economies.

Major market player included in this report are:

Hexagon AB

Airbus S.A.S.

Planet Labs PBC

Northrop Grumman Corporation

Maxar Technologies Inc.

Lockheed Martin Corporation

L3Harris Technologies, Inc.

Raytheon Technologies Corporation

Trimble Inc.

BAE Systems plc

Teledyne Technologies Incorporated

Orbital Insight, Inc.

BlackSky Technology Inc.

UrtheCast Corp.

Capella Space Corp.

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Global Remote Sensing Technology 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 Type:

Aerial Photography & Remote Sensing

Data Acquisition & Analytics

By Application:

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Agriculture

Environmental & Weather

Others

By Platform:

Satellite

UAV

Ground-Based

By End Use:

Defense & Intelligence

Commercial

Government

By Resolution:

Spatial

Spectral

Radiometric

Temporal

By Technology:

Active Sensing

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- Passive Sensing

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea

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- 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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CHAPTER 11. GLOBAL REMOTE SENSING TECHNOLOGY MARKET SIZE & FORECASTS BY REGION 2025–2035

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CHAPTER 12. COMPETITIVE INTELLIGENCE

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