

# **Global Vision Positioning System Market Size study & Forecast, by Component (Sensor, Camera, Marker) By Location (Indoor, Outdoor) By Platform (Unmanned Aerial Vehicle, Automated Guided Vehicle, Space Vehicle, Industrial Robot, Others) By Application (Retail, Healthcare, Defense, Industrial, Others) and Regional Analysis, 2023-2030**

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## **Abstracts**

Global Vision Positioning System Market is valued approximately USD 12.01 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 10.87% over the forecast period 2023-2030. A Vision Positioning System is a technology used in unmanned aerial vehicles or drones that enables them to accurately determine their position and altitude using visual cues from the surrounding environment. The Vision Positioning System market is expanding because of factors such as increasing use of unmanned aerial vehicles and growing demand for artificial intelligence enabled optical sensors. A Vision Positioning System consists of one or more cameras mounted on the drone, which capture images of the ground or other objects. These images are then processed using computer vision algorithms to extract information about the drone's position and orientation relative to the environment. Its importance has progressively increased during the last few decades.

According to the Statista, the unmanned aerial vehicle industry is anticipated to expand at a compound annual growth rate of nearly 9.6 percent between 2018 and 2029, reaching approximately 70 billion dollars globally. Most of the UAV market is made up of the military and defense. Furthermore, by 2025, it is anticipated that Europe will sell about 24% of all UAVs worldwide. In that year, UAV sales are anticipated to be worth about USD 82 billion. Another important component driving space increase is demand

for artificial intelligence enabled optical sensors. As per Statista, the global optical under-display sensing shipments has reached about 200 million units in 2020. In addition, Global complementary metal-oxide semiconductor image sensor sales are expected to reach USD 22.8 billion in 2021. The market is forecast to experience a rise to USD 33.6 billion by 2025. Also, growing adoption of automated guided vehicles and rising technological advancement in vision positioning system would create a lucrative growth prospectus for the market over the forecast period. However, the high cost of Vision Positioning System stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Vision Positioning System Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market in 2022 owing to presence of key market players in the region. According to the CDC, there will be roughly 37.3 million diabetics in the United States in 2020, including 28.7 million diagnosed and 8.5 million undiagnosed cases. Asia Pacific is expected to grow significantly during the forecast period, owing to factors such as increase in automation applications of the various end use industries, and geographic expansion of key market players in the market space.

Major market player included in this report are:

Cognex Corporation (U.S.)  
ABB (Switzerland)  
DJI (China)  
Omron Corporation (Japan)  
Pepperl+Fuchs GmbH (Europe)  
Parrot SA (France)  
Sick AG (Germany)  
Seegrid Corporation (U.S.)  
3D MEDiA Co., Ltd (US)  
Senion AB (Europe)

Recent Developments in the Market:

In April 2023, ABB Robotics has upgraded its Autonomous Mobile Robots with Visual Simultaneous Localization and Mapping (Visual SLAM) technology, allowing to make intelligent navigation decisions depending on their surroundings. ABB's Visual SLAM AMRs use AI-enabled 3D vision to execute location and mapping functions, making production faster, more flexible, efficient, and resilient.

Global Vision Positioning System Market Report Scope:

*Global Vision Positioning System Market Size study & Forecast, by Component (Sensor, Camera, Marker) By Locati...*

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

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

Segments Covered - Component, Location, Platform, Application, Region

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

Customization Scope - Free report customization (equivalent up to 8 analyst's 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 to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

#### By Component

Sensor

Camera

Marker

#### By Location

Indoor

Outdoor

#### By Platform

Unmanned Aerial Vehicle

Automated Guided Vehicle

Space Vehicle

Industrial Robot

Others

#### By Application

Retail  
Healthcare  
Defense  
Industrial  
Others

By Region:

North America  
U.S.  
Canada

Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE

Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC

Latin America  
Brazil  
Mexico

Middle East & Africa  
Saudi Arabia  
South Africa  
Rest of Middle East & Africa

## Contents

### CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
  - 1.2.1. Vision Positioning System Market, by Region, 2020-2030 (USD Billion)
  - 1.2.2. Vision Positioning System Market, by Component, 2020-2030 (USD Billion)
  - 1.2.3. Vision Positioning System Market, by Location, 2020-2030 (USD Billion)
  - 1.2.4. Vision Positioning System Market, by Platform, 2020-2030 (USD Billion)
  - 1.2.5. Vision Positioning System Market, by Application, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### CHAPTER 2. GLOBAL VISION POSITIONING SYSTEM MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Industry Evolution
  - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### CHAPTER 3. GLOBAL VISION POSITIONING SYSTEM MARKET DYNAMICS

- 3.1. Vision Positioning System Market Impact Analysis (2020-2030)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Increasing use of Unmanned Aerial Vehicles
    - 3.1.1.2. Growing demand for Artificial Intelligence enabled optical sensors
  - 3.1.2. Market Challenges
    - 3.1.2.1. High Cost of Vision Positioning System
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Growing adoption of Automated Guided Vehicles
    - 3.1.3.2. Rising technological advancement in Vision Positioning System

### CHAPTER 4. GLOBAL VISION POSITIONING SYSTEM MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL VISION POSITIONING SYSTEM MARKET, BY COMPONENT**

- 5.1. Market Snapshot
- 5.2. Global Vision Positioning System Market by Component, Performance - Potential Analysis
- 5.3. Global Vision Positioning System Market Estimates & Forecasts by Component 2020-2030 (USD Billion)
- 5.4. Vision Positioning System Market, Sub Segment Analysis
  - 5.4.1. Sensor
  - 5.4.2. Camera
  - 5.4.3. Marker

## **CHAPTER 6. GLOBAL VISION POSITIONING SYSTEM MARKET, BY LOCATION**

- 6.1. Market Snapshot
- 6.2. Global Vision Positioning System Market by Location, Performance - Potential Analysis

6.3. Global Vision Positioning System Market Estimates & Forecasts by Location  
2020-2030 (USD Billion)

6.4. Vision Positioning System Market, Sub Segment Analysis

6.4.1. Indoor

6.4.2. Outdoor

## **CHAPTER 7. GLOBAL VISION POSITIONING SYSTEM MARKET, BY PLATFORM**

7.1. Market Snapshot

7.2. Global Vision Positioning System Market by Platform, Performance - Potential  
Analysis

7.3. Global Vision Positioning System Market Estimates & Forecasts by Platform  
2020-2030 (USD Billion)

7.4. Vision Positioning System Market, Sub Segment Analysis

7.4.1. Unmanned Aerial Vehicle

7.4.2. Automated Guided Vehicle

7.4.3. Space Vehicle

7.4.4. Industrial Robot

7.4.5. Others

## **CHAPTER 8. GLOBAL VISION POSITIONING SYSTEM MARKET, BY APPLICATION**

8.1. Market Snapshot

8.2. Global Vision Positioning System Market by Application, Performance - Potential  
Analysis

8.3. Global Vision Positioning System Market Estimates & Forecasts by Application  
2020-2030 (USD Billion)

8.4. Vision Positioning System Market, Sub Segment Analysis

8.4.1. Retail

8.4.2. Healthcare

8.4.3. Defense

8.4.4. Industrial

8.4.5. Others

## **CHAPTER 9. GLOBAL VISION POSITIONING SYSTEM MARKET, REGIONAL ANALYSIS**

9.1. Top Leading Countries

9.2. Top Emerging Countries

- 9.3. Vision Positioning System Market, Regional Market Snapshot
- 9.4. North America Vision Positioning System Market
  - 9.4.1. U.S. Vision Positioning System Market
    - 9.4.1.1. Component breakdown estimates & forecasts, 2020-2030
    - 9.4.1.2. Location breakdown estimates & forecasts, 2020-2030
    - 9.4.1.3. Platform breakdown estimates & forecasts, 2020-2030
    - 9.4.1.4. Application breakdown estimates & forecasts, 2020-2030
  - 9.4.2. Canada Vision Positioning System Market
- 9.5. Europe Vision Positioning System Market Snapshot
  - 9.5.1. U.K. Vision Positioning System Market
  - 9.5.2. Germany Vision Positioning System Market
  - 9.5.3. France Vision Positioning System Market
  - 9.5.4. Spain Vision Positioning System Market
  - 9.5.5. Italy Vision Positioning System Market
  - 9.5.6. Rest of Europe Vision Positioning System Market
- 9.6. Asia-Pacific Vision Positioning System Market Snapshot
  - 9.6.1. China Vision Positioning System Market
  - 9.6.2. India Vision Positioning System Market
  - 9.6.3. Japan Vision Positioning System Market
  - 9.6.4. Australia Vision Positioning System Market
  - 9.6.5. South Korea Vision Positioning System Market
  - 9.6.6. Rest of Asia Pacific Vision Positioning System Market
- 9.7. Latin America Vision Positioning System Market Snapshot
  - 9.7.1. Brazil Vision Positioning System Market
  - 9.7.2. Mexico Vision Positioning System Market
- 9.8. Middle East & Africa Vision Positioning System Market
  - 9.8.1. Saudi Arabia Vision Positioning System Market
  - 9.8.2. South Africa Vision Positioning System Market
  - 9.8.3. Rest of Middle East & Africa Vision Positioning System Market

## **CHAPTER 10. COMPETITIVE INTELLIGENCE**

- 10.1. Key Company SWOT Analysis
  - 10.1.1. Company
  - 10.1.2. Company
  - 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles
  - 10.3.1. Cognex Corporation (U.S.)



- 10.3.1.1. Key Information
- 10.3.1.2. Overview
- 10.3.1.3. Financial (Subject to Data Availability)
- 10.3.1.4. Product Summary
- 10.3.1.5. Recent Developments
- 10.3.2. ABB (Switzerland)
- 10.3.3. DJI (China)
- 10.3.4. Omron Corporation (Japan)
- 10.3.5. Pepperl+Fuchs GmbH (Europe)
- 10.3.6. Parrot SA (France)
- 10.3.7. Sick AG (Germany)
- 10.3.8. Seegrid Corporation (U.S)
- 10.3.9. 3D MEDiA Co., Ltd (US)
- 10.3.10. Senion AB (Europe)

## **CHAPTER 11. RESEARCH PROCESS**

- 11.1. Research Process
  - 11.1.1. Data Mining
  - 11.1.2. Analysis
  - 11.1.3. Market Estimation
  - 11.1.4. Validation
  - 11.1.5. Publishing
- 11.2. Research Attributes
- 11.3. Research Assumption

## List Of Tables

### LIST OF TABLES

- TABLE 1. Global Vision Positioning System Market, report scope
- TABLE 2. Global Vision Positioning System Market estimates & forecasts by Region 2020-2030 (USD Billion)
- TABLE 3. Global Vision Positioning System Market estimates & forecasts by Component 2020-2030 (USD Billion)
- TABLE 4. Global Vision Positioning System Market estimates & forecasts by Location 2020-2030 (USD Billion)
- TABLE 5. Global Vision Positioning System Market estimates & forecasts by Platform 2020-2030 (USD Billion)
- TABLE 6. Global Vision Positioning System Market estimates & forecasts by Application 2020-2030 (USD Billion)
- TABLE 7. Global Vision Positioning System Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 8. Global Vision Positioning System Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 9. Global Vision Positioning System Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 10. Global Vision Positioning System Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 11. Global Vision Positioning System Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 12. Global Vision Positioning System Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 13. Global Vision Positioning System Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 14. Global Vision Positioning System Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 15. Global Vision Positioning System Market by segment, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 16. Global Vision Positioning System Market by region, estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 17. U.S. Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)
- TABLE 18. U.S. Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 19. U.S. Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 20. Canada Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 21. Canada Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. Canada Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 23. UK Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 24. UK Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. UK Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 26. Germany Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 27. Germany Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. Germany Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 29. France Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 30. France Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. France Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 32. Italy Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 33. Italy Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Italy Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 35. Spain Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 36. Spain Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. Spain Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 38. RoE Vision Positioning System Market estimates & forecasts, 2020-2030

(USD Billion)

TABLE 39. RoE Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 40. RoE Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 41. China Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 42. China Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 43. China Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 44. India Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 45. India Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 46. India Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 47. Japan Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 48. Japan Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 49. Japan Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 50. South Korea Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 51. South Korea Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 52. South Korea Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 53. Australia Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 54. Australia Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 55. Australia Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 56. RoAPAC Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 57. RoAPAC Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 58. RoAPAC Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 59. Brazil Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 60. Brazil Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Brazil Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 62. Mexico Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 63. Mexico Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. Mexico Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 65. RoLA Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 66. RoLA Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. RoLA Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 68. Saudi Arabia Vision Positioning System Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 69. South Africa Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. RoMEA Vision Positioning System Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 71. List of secondary sources, used in the study of global Vision Positioning System Market

TABLE 72. List of primary sources, used in the study of global Vision Positioning System Market

TABLE 73. Years considered for the study

TABLE 74. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Vision Positioning System Market, research methodology
  - FIG 2. Global Vision Positioning System Market, Market estimation techniques
  - FIG 3. Global Market size estimates & forecast methods
  - FIG 4. Global Vision Positioning System Market, key trends 2022
  - FIG 5. Global Vision Positioning System Market, growth prospects 2023-2030
  - FIG 6. Global Vision Positioning System Market, porters 5 force model
  - FIG 7. Global Vision Positioning System Market, pest analysis
  - FIG 8. Global Vision Positioning System Market, value chain analysis
  - FIG 9. Global Vision Positioning System Market by segment, 2020 & 2030 (USD Billion)
  - FIG 10. Global Vision Positioning System Market by segment, 2020 & 2030 (USD Billion)
  - FIG 11. Global Vision Positioning System Market by segment, 2020 & 2030 (USD Billion)
  - FIG 12. Global Vision Positioning System Market by segment, 2020 & 2030 (USD Billion)
  - FIG 13. Global Vision Positioning System Market by segment, 2020 & 2030 (USD Billion)
  - FIG 14. Global Vision Positioning System Market, regional snapshot 2020 & 2030
  - FIG 15. North America Vision Positioning System Market 2020 & 2030 (USD Billion)
  - FIG 16. Europe Vision Positioning System Market 2020 & 2030 (USD Billion)
  - FIG 17. Asia pacific Vision Positioning System Market 2020 & 2030 (USD Billion)
  - FIG 18. Latin America Vision Positioning System Market 2020 & 2030 (USD Billion)
  - FIG 19. Middle East & Africa Vision Positioning System Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable

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