

Global Industrial Vision Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Industrial Vision Systems market size is expected to reach \$ 17793 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, the global production of Industrial Vision Systems reached approximately 1.25 million units, with an average global market price of around US\$5,000 - \$15,000 per unit. In the same year, the global total production capacity of Industrial Vision Systems reached 1.56 million units. The industry average gross profit margin of this product reached 35%. Industrial vision systems utilize optical imaging, image sensors, algorithm processing, and automated control technologies to perform 'acquisition-analysis-decision-execution' of targets in industrial production processes. They typically consist of industrial cameras, lenses, light sources, image acquisition cards, processing units, and software algorithms. Their core functions include dimensional measurement, defect detection, positioning guidance, and character recognition. They are widely used in electronics manufacturing, semiconductors, automotive, lithium batteries, and food packaging, and are one of the crucial foundational technologies for achieving automation and intelligent manufacturing.

The industrial vision system industry chain can be divided into three main segments: upstream core components, midstream system integration and software platforms, and downstream application industries. The upstream mainly includes core hardware such as image sensors, industrial cameras and lenses, light sources, and controllers. The midstream is dominated by system integrators and platform vendors, providing complete vision solutions and algorithm software. Downstream applications cover industries such as 3C electronics, semiconductor manufacturing, automotive, lithium batteries, and logistics warehousing. Demand is highly dependent on the automation

upgrades and yield control requirements of the manufacturing industry, exhibiting an overall structural characteristic of 'upstream technology-driven + midstream integration barriers + downstream industry fragmentation.'

The future of industrial vision systems is continuously driven by the automation and intelligent upgrading of the manufacturing industry. Against the backdrop of rising labor costs, increased product complexity, and stricter quality standards, visual inspection is gradually replacing manual labor as a 'must-have configuration.' At the same time, the rapid development of AI vision and 3D vision technologies has enabled systems to upgrade from traditional rule-based algorithms to self-learning and adaptive capabilities, significantly improving the ability to detect complex defects. At the application level, semiconductors, new energy, intelligent vehicles, and logistics automation will become the main growth engines. With the integration of Artificial Intelligence and edge computing, industrial vision is evolving from a 'detection tool' to an 'intelligent decision-making hub,' and is expected to maintain steady growth over the next 5-10 years.

This report studies the global Industrial Vision Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Industrial Vision Systems 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 Industrial Vision Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Industrial Vision Systems total production and demand, 2021-2032, (K Units)

Global Industrial Vision Systems total production value, 2021-2032, (USD Million)

Global Industrial Vision Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Industrial Vision Systems consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Industrial Vision Systems domestic production, consumption, key domestic manufacturers and share

Global Industrial Vision Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Industrial Vision Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Industrial Vision Systems production by Application, production, value, CAGR,

2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Industrial Vision Systems 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 Allied Vision Technologies (USA), Basler AG (Germany), Cognex Corporation (USA), LMI Technologies (Canada), Omron (Japan), Keyence (Japan), National Instruments (USA), Sick AG (Germany), Tordivel AS (Norway), Teledyne Technologies (USA), 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 Industrial Vision Systems 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 Industrial Vision Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Industrial Vision Systems Market, Segmentation by Type:

2D Vision System

3D Vision System

AI Vision

Global Industrial Vision Systems Market, Segmentation by Functions:

Defect Detection

Dimensional Measurement

Location Guidance

OCR/Barcode Recognition

Global Industrial Vision Systems Market, Segmentation by Application:

Automotive

Consumer Electronics

Electronics and Semiconductor

Food and Packaging

Printing

Others

Companies Profiled:

Allied Vision Technologies (USA)

Basler AG (Germany)

Cognex Corporation (USA)

LMI Technologies (Canada)

Omron (Japan)

Keyence (Japan)

National Instruments (USA)

Sick AG (Germany)

Tordivel AS (Norway)

Teledyne Technologies (USA)

ISRA Vision (Germany)

Baumer (Germany)

Sony (Japan)

Hikrobot (China)

Lingyun Optoelectronics (China)

Opt Machine Vision (China)

Key Questions Answered:

1. How big is the global Industrial Vision Systems market?
2. What is the demand of the global Industrial Vision Systems market?
3. What is the year over year growth of the global Industrial Vision Systems market?

4. What is the production and production value of the global Industrial Vision Systems market?
5. Who are the key producers in the global Industrial Vision Systems market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Industrial Vision Systems Introduction
- 1.2 World Industrial Vision Systems Supply & Forecast
 - 1.2.1 World Industrial Vision Systems Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Industrial Vision Systems Production (2021-2032)
 - 1.2.3 World Industrial Vision Systems Pricing Trends (2021-2032)
- 1.3 World Industrial Vision Systems Production by Region (Based on Production Site)
 - 1.3.1 World Industrial Vision Systems Production Value by Region (2021-2032)
 - 1.3.2 World Industrial Vision Systems Production by Region (2021-2032)
 - 1.3.3 World Industrial Vision Systems Average Price by Region (2021-2032)
 - 1.3.4 North America Industrial Vision Systems Production (2021-2032)
 - 1.3.5 Europe Industrial Vision Systems Production (2021-2032)
 - 1.3.6 China Industrial Vision Systems Production (2021-2032)
 - 1.3.7 Japan Industrial Vision Systems Production (2021-2032)
 - 1.3.8 South Korea Industrial Vision Systems Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Industrial Vision Systems Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Industrial Vision Systems Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Industrial Vision Systems Demand (2021-2032)
- 2.2 World Industrial Vision Systems Consumption by Region
 - 2.2.1 World Industrial Vision Systems Consumption by Region (2021-2026)
 - 2.2.2 World Industrial Vision Systems Consumption Forecast by Region (2027-2032)
- 2.3 United States Industrial Vision Systems Consumption (2021-2032)
- 2.4 China Industrial Vision Systems Consumption (2021-2032)
- 2.5 Europe Industrial Vision Systems Consumption (2021-2032)
- 2.6 Japan Industrial Vision Systems Consumption (2021-2032)
- 2.7 South Korea Industrial Vision Systems Consumption (2021-2032)
- 2.8 ASEAN Industrial Vision Systems Consumption (2021-2032)
- 2.9 India Industrial Vision Systems Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Industrial Vision Systems Production Value by Manufacturer (2021-2026)
- 3.2 World Industrial Vision Systems Production by Manufacturer (2021-2026)
- 3.3 World Industrial Vision Systems Average Price by Manufacturer (2021-2026)
- 3.4 Industrial Vision Systems Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Industrial Vision Systems Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Industrial Vision Systems in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Industrial Vision Systems in 2025
- 3.6 Industrial Vision Systems Market: Overall Company Footprint Analysis
 - 3.6.1 Industrial Vision Systems Market: Region Footprint
 - 3.6.2 Industrial Vision Systems Market: Company Product Type Footprint
 - 3.6.3 Industrial Vision Systems Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Industrial Vision Systems Production Value Comparison
 - 4.1.1 United States VS China: Industrial Vision Systems Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Industrial Vision Systems Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Industrial Vision Systems Production Comparison
 - 4.2.1 United States VS China: Industrial Vision Systems Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Industrial Vision Systems Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Industrial Vision Systems Consumption Comparison
 - 4.3.1 United States VS China: Industrial Vision Systems Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Industrial Vision Systems Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Industrial Vision Systems Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Industrial Vision Systems Manufacturers, Headquarters and

Production Site (States, Country)

4.4.2 United States Based Manufacturers Industrial Vision Systems Production Value (2021-2026)

4.4.3 United States Based Manufacturers Industrial Vision Systems Production (2021-2026)

4.5 China Based Industrial Vision Systems Manufacturers and Market Share

4.5.1 China Based Industrial Vision Systems Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Industrial Vision Systems Production Value (2021-2026)

4.5.3 China Based Manufacturers Industrial Vision Systems Production (2021-2026)

4.6 Rest of World Based Industrial Vision Systems Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Industrial Vision Systems Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Industrial Vision Systems Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Industrial Vision Systems Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Industrial Vision Systems Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 2D Vision System

5.2.2 3D Vision System

5.2.3 AI Vision

5.3 Market Segment by Type

5.3.1 World Industrial Vision Systems Production by Type (2021-2032)

5.3.2 World Industrial Vision Systems Production Value by Type (2021-2032)

5.3.3 World Industrial Vision Systems Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FUNCTIONS

6.1 World Industrial Vision Systems Market Size Overview by Functions: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Functions

6.2.1 Defect Detection

6.2.2 Dimensional Measurement

6.2.3 Location Guidance

6.2.4 OCR/Barcode Recognition

6.3 Market Segment by Functions

6.3.1 World Industrial Vision Systems Production by Functions (2021-2032)

6.3.2 World Industrial Vision Systems Production Value by Functions (2021-2032)

6.3.3 World Industrial Vision Systems Average Price by Functions (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Industrial Vision Systems Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Automotive

7.2.2 Consumer Electronics

7.2.3 Electronics and Semiconductor

7.2.4 Food and Packaging

7.2.5 Printing

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World Industrial Vision Systems Production by Application (2021-2032)

7.3.2 World Industrial Vision Systems Production Value by Application (2021-2032)

7.3.3 World Industrial Vision Systems Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 Allied Vision Technologies (USA)

8.1.1 Allied Vision Technologies (USA) Details

8.1.2 Allied Vision Technologies (USA) Major Business

8.1.3 Allied Vision Technologies (USA) Industrial Vision Systems Product and Services

8.1.4 Allied Vision Technologies (USA) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Allied Vision Technologies (USA) Recent Developments/Updates

8.1.6 Allied Vision Technologies (USA) Competitive Strengths & Weaknesses

8.2 Basler AG (Germany)

8.2.1 Basler AG (Germany) Details

8.2.2 Basler AG (Germany) Major Business

8.2.3 Basler AG (Germany) Industrial Vision Systems Product and Services

8.2.4 Basler AG (Germany) Industrial Vision Systems Production, Price, Value, Gross

Margin and Market Share (2021-2026)

8.2.5 Basler AG (Germany) Recent Developments/Updates

8.2.6 Basler AG (Germany) Competitive Strengths & Weaknesses

8.3 Cognex Corporation (USA)

8.3.1 Cognex Corporation (USA) Details

8.3.2 Cognex Corporation (USA) Major Business

8.3.3 Cognex Corporation (USA) Industrial Vision Systems Product and Services

8.3.4 Cognex Corporation (USA) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 Cognex Corporation (USA) Recent Developments/Updates

8.3.6 Cognex Corporation (USA) Competitive Strengths & Weaknesses

8.4 LMI Technologies (Canada)

8.4.1 LMI Technologies (Canada) Details

8.4.2 LMI Technologies (Canada) Major Business

8.4.3 LMI Technologies (Canada) Industrial Vision Systems Product and Services

8.4.4 LMI Technologies (Canada) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.4.5 LMI Technologies (Canada) Recent Developments/Updates

8.4.6 LMI Technologies (Canada) Competitive Strengths & Weaknesses

8.5 Omron (Japan)

8.5.1 Omron (Japan) Details

8.5.2 Omron (Japan) Major Business

8.5.3 Omron (Japan) Industrial Vision Systems Product and Services

8.5.4 Omron (Japan) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.5.5 Omron (Japan) Recent Developments/Updates

8.5.6 Omron (Japan) Competitive Strengths & Weaknesses

8.6 Keyence (Japan)

8.6.1 Keyence (Japan) Details

8.6.2 Keyence (Japan) Major Business

8.6.3 Keyence (Japan) Industrial Vision Systems Product and Services

8.6.4 Keyence (Japan) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.6.5 Keyence (Japan) Recent Developments/Updates

8.6.6 Keyence (Japan) Competitive Strengths & Weaknesses

8.7 National Instruments (USA)

8.7.1 National Instruments (USA) Details

8.7.2 National Instruments (USA) Major Business

8.7.3 National Instruments (USA) Industrial Vision Systems Product and Services

- 8.7.4 National Instruments (USA) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.7.5 National Instruments (USA) Recent Developments/Updates
- 8.7.6 National Instruments (USA) Competitive Strengths & Weaknesses
- 8.8 Sick AG (Germany)
 - 8.8.1 Sick AG (Germany) Details
 - 8.8.2 Sick AG (Germany) Major Business
 - 8.8.3 Sick AG (Germany) Industrial Vision Systems Product and Services
 - 8.8.4 Sick AG (Germany) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.8.5 Sick AG (Germany) Recent Developments/Updates
 - 8.8.6 Sick AG (Germany) Competitive Strengths & Weaknesses
- 8.9 Tordivel AS (Norway)
 - 8.9.1 Tordivel AS (Norway) Details
 - 8.9.2 Tordivel AS (Norway) Major Business
 - 8.9.3 Tordivel AS (Norway) Industrial Vision Systems Product and Services
 - 8.9.4 Tordivel AS (Norway) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.9.5 Tordivel AS (Norway) Recent Developments/Updates
 - 8.9.6 Tordivel AS (Norway) Competitive Strengths & Weaknesses
- 8.10 Teledyne Technologies (USA)
 - 8.10.1 Teledyne Technologies (USA) Details
 - 8.10.2 Teledyne Technologies (USA) Major Business
 - 8.10.3 Teledyne Technologies (USA) Industrial Vision Systems Product and Services
 - 8.10.4 Teledyne Technologies (USA) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.10.5 Teledyne Technologies (USA) Recent Developments/Updates
 - 8.10.6 Teledyne Technologies (USA) Competitive Strengths & Weaknesses
- 8.11 ISRA Vision (Germany)
 - 8.11.1 ISRA Vision (Germany) Details
 - 8.11.2 ISRA Vision (Germany) Major Business
 - 8.11.3 ISRA Vision (Germany) Industrial Vision Systems Product and Services
 - 8.11.4 ISRA Vision (Germany) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.11.5 ISRA Vision (Germany) Recent Developments/Updates
 - 8.11.6 ISRA Vision (Germany) Competitive Strengths & Weaknesses
- 8.12 Baumer (Germany)
 - 8.12.1 Baumer (Germany) Details
 - 8.12.2 Baumer (Germany) Major Business

- 8.12.3 Baumer (Germany) Industrial Vision Systems Product and Services
- 8.12.4 Baumer (Germany) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.12.5 Baumer (Germany) Recent Developments/Updates
- 8.12.6 Baumer (Germany) Competitive Strengths & Weaknesses
- 8.13 Sony (Japan)
- 8.13.1 Sony (Japan) Details
- 8.13.2 Sony (Japan) Major Business
- 8.13.3 Sony (Japan) Industrial Vision Systems Product and Services
- 8.13.4 Sony (Japan) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.13.5 Sony (Japan) Recent Developments/Updates
- 8.13.6 Sony (Japan) Competitive Strengths & Weaknesses
- 8.14 Hikrobot (China)
- 8.14.1 Hikrobot (China) Details
- 8.14.2 Hikrobot (China) Major Business
- 8.14.3 Hikrobot (China) Industrial Vision Systems Product and Services
- 8.14.4 Hikrobot (China) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.14.5 Hikrobot (China) Recent Developments/Updates
- 8.14.6 Hikrobot (China) Competitive Strengths & Weaknesses
- 8.15 Lingyun Optoelectronics (China)
- 8.15.1 Lingyun Optoelectronics (China) Details
- 8.15.2 Lingyun Optoelectronics (China) Major Business
- 8.15.3 Lingyun Optoelectronics (China) Industrial Vision Systems Product and Services
- 8.15.4 Lingyun Optoelectronics (China) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.15.5 Lingyun Optoelectronics (China) Recent Developments/Updates
- 8.15.6 Lingyun Optoelectronics (China) Competitive Strengths & Weaknesses
- 8.16 Opt Machine Vision (China)
- 8.16.1 Opt Machine Vision (China) Details
- 8.16.2 Opt Machine Vision (China) Major Business
- 8.16.3 Opt Machine Vision (China) Industrial Vision Systems Product and Services
- 8.16.4 Opt Machine Vision (China) Industrial Vision Systems Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.16.5 Opt Machine Vision (China) Recent Developments/Updates
- 8.16.6 Opt Machine Vision (China) Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 Industrial Vision Systems Industry Chain
- 9.2 Industrial Vision Systems Upstream Analysis
 - 9.2.1 Industrial Vision Systems Core Raw Materials
 - 9.2.2 Main Manufacturers of Industrial Vision Systems Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Industrial Vision Systems Production Mode
- 9.6 Industrial Vision Systems Procurement Model
- 9.7 Industrial Vision Systems Industry Sales Model and Sales Channels
 - 9.7.1 Industrial Vision Systems Sales Model
 - 9.7.2 Industrial Vision Systems Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Industrial Vision Systems Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Industrial Vision Systems Production Value by Region (2021-2026) & (USD Million)

Table 3. World Industrial Vision Systems Production Value by Region (2027-2032) & (USD Million)

Table 4. World Industrial Vision Systems Production Value Market Share by Region (2021-2026)

Table 5. World Industrial Vision Systems Production Value Market Share by Region (2027-2032)

Table 6. World Industrial Vision Systems Production by Region (2021-2026) & (K Units)

Table 7. World Industrial Vision Systems Production by Region (2027-2032) & (K Units)

Table 8. World Industrial Vision Systems Production Market Share by Region (2021-2026)

Table 9. World Industrial Vision Systems Production Market Share by Region (2027-2032)

Table 10. World Industrial Vision Systems Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Industrial Vision Systems Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Industrial Vision Systems Major Market Trends

Table 13. World Industrial Vision Systems Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Industrial Vision Systems Consumption by Region (2021-2026) & (K Units)

Table 15. World Industrial Vision Systems Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Industrial Vision Systems Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Industrial Vision Systems Producers in 2025

Table 18. World Industrial Vision Systems Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Industrial Vision Systems Producers in 2025

Table 20. World Industrial Vision Systems Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Industrial Vision Systems Company Evaluation Quadrant

Table 22. World Industrial Vision Systems Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Industrial Vision Systems Production Site of Key Manufacturer

Table 24. Industrial Vision Systems Market: Company Product Type Footprint

Table 25. Industrial Vision Systems Market: Company Product Application Footprint

Table 26. Industrial Vision Systems Competitive Factors

Table 27. Industrial Vision Systems New Entrant and Capacity Expansion Plans

Table 28. Industrial Vision Systems Mergers & Acquisitions Activity

Table 29. United States VS China Industrial Vision Systems Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Industrial Vision Systems Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Industrial Vision Systems Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Industrial Vision Systems Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Industrial Vision Systems Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Industrial Vision Systems Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Industrial Vision Systems Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Industrial Vision Systems Production Market Share (2021-2026)

Table 37. China Based Industrial Vision Systems Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Industrial Vision Systems Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Industrial Vision Systems Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Industrial Vision Systems Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Industrial Vision Systems Production Market Share (2021-2026)

Table 42. Rest of World Based Industrial Vision Systems Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Industrial Vision Systems Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Industrial Vision Systems Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Industrial Vision Systems Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Industrial Vision Systems Production Market Share (2021-2026)

Table 47. World Industrial Vision Systems Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Industrial Vision Systems Production by Type (2021-2026) & (K Units)

Table 49. World Industrial Vision Systems Production by Type (2027-2032) & (K Units)

Table 50. World Industrial Vision Systems Production Value by Type (2021-2026) & (USD Million)

Table 51. World Industrial Vision Systems Production Value by Type (2027-2032) & (USD Million)

Table 52. World Industrial Vision Systems Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Industrial Vision Systems Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Industrial Vision Systems Production Value by Functions, (USD Million), 2021 & 2025 & 2032

Table 55. World Industrial Vision Systems Production by Functions (2021-2026) & (K Units)

Table 56. World Industrial Vision Systems Production by Functions (2027-2032) & (K Units)

Table 57. World Industrial Vision Systems Production Value by Functions (2021-2026) & (USD Million)

Table 58. World Industrial Vision Systems Production Value by Functions (2027-2032) & (USD Million)

Table 59. World Industrial Vision Systems Average Price by Functions (2021-2026) & (US\$/Unit)

Table 60. World Industrial Vision Systems Average Price by Functions (2027-2032) & (US\$/Unit)

Table 61. World Industrial Vision Systems Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Industrial Vision Systems Production by Application (2021-2026) & (K Units)

Table 63. World Industrial Vision Systems Production by Application (2027-2032) & (K

Units)

Table 64. World Industrial Vision Systems Production Value by Application (2021-2026) & (USD Million)

Table 65. World Industrial Vision Systems Production Value by Application (2027-2032) & (USD Million)

Table 66. World Industrial Vision Systems Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Industrial Vision Systems Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Allied Vision Technologies (USA) Basic Information, Manufacturing Base and Competitors

Table 69. Allied Vision Technologies (USA) Major Business

Table 70. Allied Vision Technologies (USA) Industrial Vision Systems Product and Services

Table 71. Allied Vision Technologies (USA) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Allied Vision Technologies (USA) Recent Developments/Updates

Table 73. Allied Vision Technologies (USA) Competitive Strengths & Weaknesses

Table 74. Basler AG (Germany) Basic Information, Manufacturing Base and Competitors

Table 75. Basler AG (Germany) Major Business

Table 76. Basler AG (Germany) Industrial Vision Systems Product and Services

Table 77. Basler AG (Germany) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Basler AG (Germany) Recent Developments/Updates

Table 79. Basler AG (Germany) Competitive Strengths & Weaknesses

Table 80. Cognex Corporation (USA) Basic Information, Manufacturing Base and Competitors

Table 81. Cognex Corporation (USA) Major Business

Table 82. Cognex Corporation (USA) Industrial Vision Systems Product and Services

Table 83. Cognex Corporation (USA) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Cognex Corporation (USA) Recent Developments/Updates

Table 85. Cognex Corporation (USA) Competitive Strengths & Weaknesses

Table 86. LMI Technologies (Canada) Basic Information, Manufacturing Base and Competitors

Table 87. LMI Technologies (Canada) Major Business
Table 88. LMI Technologies (Canada) Industrial Vision Systems Product and Services
Table 89. LMI Technologies (Canada) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. LMI Technologies (Canada) Recent Developments/Updates
Table 91. LMI Technologies (Canada) Competitive Strengths & Weaknesses
Table 92. Omron (Japan) Basic Information, Manufacturing Base and Competitors
Table 93. Omron (Japan) Major Business
Table 94. Omron (Japan) Industrial Vision Systems Product and Services
Table 95. Omron (Japan) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. Omron (Japan) Recent Developments/Updates
Table 97. Omron (Japan) Competitive Strengths & Weaknesses
Table 98. Keyence (Japan) Basic Information, Manufacturing Base and Competitors
Table 99. Keyence (Japan) Major Business
Table 100. Keyence (Japan) Industrial Vision Systems Product and Services
Table 101. Keyence (Japan) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 102. Keyence (Japan) Recent Developments/Updates
Table 103. Keyence (Japan) Competitive Strengths & Weaknesses
Table 104. National Instruments (USA) Basic Information, Manufacturing Base and Competitors
Table 105. National Instruments (USA) Major Business
Table 106. National Instruments (USA) Industrial Vision Systems Product and Services
Table 107. National Instruments (USA) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 108. National Instruments (USA) Recent Developments/Updates
Table 109. National Instruments (USA) Competitive Strengths & Weaknesses
Table 110. Sick AG (Germany) Basic Information, Manufacturing Base and Competitors
Table 111. Sick AG (Germany) Major Business
Table 112. Sick AG (Germany) Industrial Vision Systems Product and Services
Table 113. Sick AG (Germany) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 114. Sick AG (Germany) Recent Developments/Updates

Table 115. Sick AG (Germany) Competitive Strengths & Weaknesses

Table 116. Tordivel AS (Norway) Basic Information, Manufacturing Base and Competitors

Table 117. Tordivel AS (Norway) Major Business

Table 118. Tordivel AS (Norway) Industrial Vision Systems Product and Services

Table 119. Tordivel AS (Norway) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Tordivel AS (Norway) Recent Developments/Updates

Table 121. Tordivel AS (Norway) Competitive Strengths & Weaknesses

Table 122. Teledyne Technologies (USA) Basic Information, Manufacturing Base and Competitors

Table 123. Teledyne Technologies (USA) Major Business

Table 124. Teledyne Technologies (USA) Industrial Vision Systems Product and Services

Table 125. Teledyne Technologies (USA) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Teledyne Technologies (USA) Recent Developments/Updates

Table 127. Teledyne Technologies (USA) Competitive Strengths & Weaknesses

Table 128. ISRA Vision (Germany) Basic Information, Manufacturing Base and Competitors

Table 129. ISRA Vision (Germany) Major Business

Table 130. ISRA Vision (Germany) Industrial Vision Systems Product and Services

Table 131. ISRA Vision (Germany) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. ISRA Vision (Germany) Recent Developments/Updates

Table 133. ISRA Vision (Germany) Competitive Strengths & Weaknesses

Table 134. Baumer (Germany) Basic Information, Manufacturing Base and Competitors

Table 135. Baumer (Germany) Major Business

Table 136. Baumer (Germany) Industrial Vision Systems Product and Services

Table 137. Baumer (Germany) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Baumer (Germany) Recent Developments/Updates

Table 139. Baumer (Germany) Competitive Strengths & Weaknesses

Table 140. Sony (Japan) Basic Information, Manufacturing Base and Competitors

Table 141. Sony (Japan) Major Business

Table 142. Sony (Japan) Industrial Vision Systems Product and Services
Table 143. Sony (Japan) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 144. Sony (Japan) Recent Developments/Updates
Table 145. Sony (Japan) Competitive Strengths & Weaknesses
Table 146. Hikrobot (China) Basic Information, Manufacturing Base and Competitors
Table 147. Hikrobot (China) Major Business
Table 148. Hikrobot (China) Industrial Vision Systems Product and Services
Table 149. Hikrobot (China) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 150. Hikrobot (China) Recent Developments/Updates
Table 151. Hikrobot (China) Competitive Strengths & Weaknesses
Table 152. Lingyun Optoelectronics (China) Basic Information, Manufacturing Base and Competitors
Table 153. Lingyun Optoelectronics (China) Major Business
Table 154. Lingyun Optoelectronics (China) Industrial Vision Systems Product and Services
Table 155. Lingyun Optoelectronics (China) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 156. Lingyun Optoelectronics (China) Recent Developments/Updates
Table 157. Lingyun Optoelectronics (China) Competitive Strengths & Weaknesses
Table 158. Opt Machine Vision (China) Basic Information, Manufacturing Base and Competitors
Table 159. Opt Machine Vision (China) Major Business
Table 160. Opt Machine Vision (China) Industrial Vision Systems Product and Services
Table 161. Opt Machine Vision (China) Industrial Vision Systems Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 162. Opt Machine Vision (China) Recent Developments/Updates
Table 163. Opt Machine Vision (China) Competitive Strengths & Weaknesses
Table 164. Global Key Players of Industrial Vision Systems Upstream (Raw Materials)
Table 165. Global Industrial Vision Systems Typical Customers
Table 166. Industrial Vision Systems Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Industrial Vision Systems Picture
- Figure 2. World Industrial Vision Systems Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Industrial Vision Systems Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Industrial Vision Systems Production (2021-2032) & (K Units)
- Figure 5. World Industrial Vision Systems Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Industrial Vision Systems Production Value Market Share by Region (2021-2032)
- Figure 7. World Industrial Vision Systems Production Market Share by Region (2021-2032)
- Figure 8. North America Industrial Vision Systems Production (2021-2032) & (K Units)
- Figure 9. Europe Industrial Vision Systems Production (2021-2032) & (K Units)
- Figure 10. China Industrial Vision Systems Production (2021-2032) & (K Units)
- Figure 11. Japan Industrial Vision Systems Production (2021-2032) & (K Units)
- Figure 12. South Korea Industrial Vision Systems Production (2021-2032) & (K Units)
- Figure 13. Industrial Vision Systems Market Drivers
- Figure 14. Factors Affecting Demand
- Figure 15. World Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 16. World Industrial Vision Systems Consumption Market Share by Region (2021-2032)
- Figure 17. United States Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 18. China Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 19. Europe Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 20. Japan Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 21. South Korea Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 22. ASEAN Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 23. India Industrial Vision Systems Consumption (2021-2032) & (K Units)
- Figure 24. Producer Shipments of Industrial Vision Systems by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 25. Global Four-firm Concentration Ratios (CR4) for Industrial Vision Systems Markets in 2025
- Figure 26. Global Four-firm Concentration Ratios (CR8) for Industrial Vision Systems Markets in 2025

Figure 27. United States VS China: Industrial Vision Systems Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Industrial Vision Systems Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Industrial Vision Systems Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Industrial Vision Systems Production Market Share 2025

Figure 31. China Based Manufacturers Industrial Vision Systems Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Industrial Vision Systems Production Market Share 2025

Figure 33. World Industrial Vision Systems Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Industrial Vision Systems Production Value Market Share by Type in 2025

Figure 35. 2D Vision System

Figure 36. 3D Vision System

Figure 37. AI Vision

Figure 38. World Industrial Vision Systems Production Market Share by Type (2021-2032)

Figure 39. World Industrial Vision Systems Production Value Market Share by Type (2021-2032)

Figure 40. World Industrial Vision Systems Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Industrial Vision Systems Production Value by Functions, (USD Million), 2021 & 2025 & 2032

Figure 42. World Industrial Vision Systems Production Value Market Share by Functions in 2025

Figure 43. Defect Detection

Figure 44. Dimensional Measurement

Figure 45. Location Guidance

Figure 46. OCR/Barcode Recognition

Figure 47. World Industrial Vision Systems Production Market Share by Functions (2021-2032)

Figure 48. World Industrial Vision Systems Production Value Market Share by Functions (2021-2032)

Figure 49. World Industrial Vision Systems Average Price by Functions (2021-2032) & (US\$/Unit)

Figure 50. World Industrial Vision Systems Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World Industrial Vision Systems Production Value Market Share by Application in 2025

Figure 52. Automotive

Figure 53. Consumer Electronics

Figure 54. Electronics and Semiconductor

Figure 55. Food and Packaging

Figure 56. Printing

Figure 57. Others

Figure 58. World Industrial Vision Systems Production Market Share by Application (2021-2032)

Figure 59. World Industrial Vision Systems Production Value Market Share by Application (2021-2032)

Figure 60. World Industrial Vision Systems Average Price by Application (2021-2032) & (US\$/Unit)

Figure 61. Industrial Vision Systems Industry Chain

Figure 62. Industrial Vision Systems Procurement Model

Figure 63. Industrial Vision Systems Sales Model

Figure 64. Industrial Vision Systems Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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