

Global LED Illumination for Machine Vision Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on LED Illumination for Machine Vision competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. LED illumination for machine vision refers to a class of high-performance light sources specifically engineered for industrial imaging systems. Based on LED technology, these products convert electrical energy directly into light, providing efficient, stable, and precisely controllable illumination. In 2024, the annual production volume of LED illumination for machine vision was about 7.19 million units, with an average price of USD 260.

The global LED Illumination for Machine Vision market size was estimated at USD 1870.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global LED Illumination for Machine Vision market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global LED Illumination for Machine Vision market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the LED Illumination for Machine Vision market.

Global LED Illumination for Machine Vision Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

OMRON
CCS Lighting
Advanced Illumination
Smart Vision Lights
Siemens
Cognex Corporation
HikVision
Moritex
Schneider Electric
Balluff
ProPhotonix

EFFILUX
Spectrum Illumination
TPL Vision
Banner Engineering

Market Segmentation (by Type)

Ring Light Source
Bar Light Source
Back Lights
Coaxial Light Source
Others

Market Segmentation (by Application)

Electronics Industry
Display Industry
Logistics Industry
Semiconductor Industry
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the LED Illumination for Machine Vision Market

Overview of the regional outlook of the LED Illumination for Machine Vision Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the LED Illumination for Machine Vision Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future

development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of LED Illumination for Machine Vision, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and

restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of LED Illumination for Machine Vision
- 1.2 Key Market Segments
 - 1.2.1 LED Illumination for Machine Vision Segment by Type
 - 1.2.2 LED Illumination for Machine Vision Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 LED ILLUMINATION FOR MACHINE VISION MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global LED Illumination for Machine Vision Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global LED Illumination for Machine Vision Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 LED ILLUMINATION FOR MACHINE VISION MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global LED Illumination for Machine Vision Product Life Cycle
- 3.3 Global LED Illumination for Machine Vision Sales by Manufacturers (2020-2025)
- 3.4 Global LED Illumination for Machine Vision Revenue Market Share by Manufacturers (2020-2025)
- 3.5 LED Illumination for Machine Vision Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global LED Illumination for Machine Vision Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 LED Illumination for Machine Vision Market Competitive Situation and Trends

- 3.8.1 LED Illumination for Machine Vision Market Concentration Rate
- 3.8.2 Global 5 and 10 Largest LED Illumination for Machine Vision Players Market Share by Revenue
- 3.8.3 Mergers & Acquisitions, Expansion

4 LED ILLUMINATION FOR MACHINE VISION INDUSTRY CHAIN ANALYSIS

- 4.1 LED Illumination for Machine Vision Industry Chain Analysis
- 4.2 Market Overview of Key Raw Materials
- 4.3 Midstream Market Analysis
- 4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF LED ILLUMINATION FOR MACHINE VISION MARKET

- 5.1 Key Development Trends
- 5.2 Driving Factors
- 5.3 Market Challenges
- 5.4 Industry News
 - 5.4.1 New Product Developments
 - 5.4.2 Mergers & Acquisitions
 - 5.4.3 Expansions
 - 5.4.4 Collaboration/Supply Contracts
- 5.5 PEST Analysis
 - 5.5.1 Industry Policies Analysis
 - 5.5.2 Economic Environment Analysis
 - 5.5.3 Social Environment Analysis
 - 5.5.4 Technological Environment Analysis
- 5.6 Global LED Illumination for Machine Vision Market Porter's Five Forces Analysis
 - 5.6.1 Global Trade Frictions
 - 5.6.2 U.S. Tariff Policy ? April 2025
 - 5.6.3 Global Trade Frictions and Their Impacts to LED Illumination for Machine Vision Market
- 5.7 ESG Ratings of Leading Companies

6 LED ILLUMINATION FOR MACHINE VISION MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global LED Illumination for Machine Vision Sales Market Share by Type

(2020-2025)

6.3 Global LED Illumination for Machine Vision Market Size by Type (2020-2025)

6.4 Global LED Illumination for Machine Vision Price by Type (2020-2025)

7 LED ILLUMINATION FOR MACHINE VISION MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global LED Illumination for Machine Vision Market Sales by Application (2020-2025)

7.3 Global LED Illumination for Machine Vision Market Size (M USD) by Application (2020-2025)

7.4 Global LED Illumination for Machine Vision Sales Growth Rate by Application (2020-2025)

8 LED ILLUMINATION FOR MACHINE VISION MARKET SALES BY REGION

8.1 Global LED Illumination for Machine Vision Sales by Region

8.1.1 Global LED Illumination for Machine Vision Sales by Region

8.1.2 Global LED Illumination for Machine Vision Sales Market Share by Region

8.2 Global LED Illumination for Machine Vision Market Size by Region

8.2.1 Global LED Illumination for Machine Vision Market Size by Region

8.2.2 Global LED Illumination for Machine Vision Market Size by Region

8.3 North America

8.3.1 North America LED Illumination for Machine Vision Sales by Country

8.3.2 North America LED Illumination for Machine Vision Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe LED Illumination for Machine Vision Sales by Country

8.4.2 Europe LED Illumination for Machine Vision Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific LED Illumination for Machine Vision Sales by Region

8.5.2 Asia Pacific LED Illumination for Machine Vision Market Size by Region

- 8.5.3 China Market Overview
- 8.5.4 Japan Market Overview
- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview

8.6 South America

- 8.6.1 South America LED Illumination for Machine Vision Sales by Country
- 8.6.2 South America LED Illumination for Machine Vision Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview

8.7 Middle East and Africa

- 8.7.1 Middle East and Africa LED Illumination for Machine Vision Sales by Region
- 8.7.2 Middle East and Africa LED Illumination for Machine Vision Market Size by Region
- 8.7.3 Saudi Arabia Market Overview
- 8.7.4 UAE Market Overview
- 8.7.5 Egypt Market Overview
- 8.7.6 Nigeria Market Overview
- 8.7.7 South Africa Market Overview

9 LED ILLUMINATION FOR MACHINE VISION MARKET PRODUCTION BY REGION

- 9.1 Global Production of LED Illumination for Machine Vision by Region(2020-2025)
- 9.2 Global LED Illumination for Machine Vision Revenue Market Share by Region (2020-2025)
- 9.3 Global LED Illumination for Machine Vision Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America LED Illumination for Machine Vision Production
 - 9.4.1 North America LED Illumination for Machine Vision Production Growth Rate (2020-2025)
 - 9.4.2 North America LED Illumination for Machine Vision Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe LED Illumination for Machine Vision Production
 - 9.5.1 Europe LED Illumination for Machine Vision Production Growth Rate (2020-2025)
 - 9.5.2 Europe LED Illumination for Machine Vision Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan LED Illumination for Machine Vision Production (2020-2025)

- 9.6.1 Japan LED Illumination for Machine Vision Production Growth Rate (2020-2025)
- 9.6.2 Japan LED Illumination for Machine Vision Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China LED Illumination for Machine Vision Production (2020-2025)
 - 9.7.1 China LED Illumination for Machine Vision Production Growth Rate (2020-2025)
 - 9.7.2 China LED Illumination for Machine Vision Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 OMRON

- 10.1.1 OMRON Basic Information
- 10.1.2 OMRON LED Illumination for Machine Vision Product Overview
- 10.1.3 OMRON LED Illumination for Machine Vision Product Market Performance
- 10.1.4 OMRON Business Overview
- 10.1.5 OMRON SWOT Analysis
- 10.1.6 OMRON Recent Developments

10.2 CCS Lighting

- 10.2.1 CCS Lighting Basic Information
- 10.2.2 CCS Lighting LED Illumination for Machine Vision Product Overview
- 10.2.3 CCS Lighting LED Illumination for Machine Vision Product Market Performance
- 10.2.4 CCS Lighting Business Overview
- 10.2.5 CCS Lighting SWOT Analysis
- 10.2.6 CCS Lighting Recent Developments

10.3 Advanced Illumination

- 10.3.1 Advanced Illumination Basic Information
- 10.3.2 Advanced Illumination LED Illumination for Machine Vision Product Overview
- 10.3.3 Advanced Illumination LED Illumination for Machine Vision Product Market Performance
- 10.3.4 Advanced Illumination Business Overview
- 10.3.5 Advanced Illumination SWOT Analysis
- 10.3.6 Advanced Illumination Recent Developments

10.4 Smart Vision Lights

- 10.4.1 Smart Vision Lights Basic Information
- 10.4.2 Smart Vision Lights LED Illumination for Machine Vision Product Overview
- 10.4.3 Smart Vision Lights LED Illumination for Machine Vision Product Market Performance
- 10.4.4 Smart Vision Lights Business Overview
- 10.4.5 Smart Vision Lights Recent Developments

10.5 Siemens

10.5.1 Siemens Basic Information

10.5.2 Siemens LED Illumination for Machine Vision Product Overview

10.5.3 Siemens LED Illumination for Machine Vision Product Market Performance

10.5.4 Siemens Business Overview

10.5.5 Siemens Recent Developments

10.6 Cognex Corporation

10.6.1 Cognex Corporation Basic Information

10.6.2 Cognex Corporation LED Illumination for Machine Vision Product Overview

10.6.3 Cognex Corporation LED Illumination for Machine Vision Product Market

Performance

10.6.4 Cognex Corporation Business Overview

10.6.5 Cognex Corporation Recent Developments

10.7 HikVision

10.7.1 HikVision Basic Information

10.7.2 HikVision LED Illumination for Machine Vision Product Overview

10.7.3 HikVision LED Illumination for Machine Vision Product Market Performance

10.7.4 HikVision Business Overview

10.7.5 HikVision Recent Developments

10.8 Moritex

10.8.1 Moritex Basic Information

10.8.2 Moritex LED Illumination for Machine Vision Product Overview

10.8.3 Moritex LED Illumination for Machine Vision Product Market Performance

10.8.4 Moritex Business Overview

10.8.5 Moritex Recent Developments

10.9 Schneider Electric

10.9.1 Schneider Electric Basic Information

10.9.2 Schneider Electric LED Illumination for Machine Vision Product Overview

10.9.3 Schneider Electric LED Illumination for Machine Vision Product Market

Performance

10.9.4 Schneider Electric Business Overview

10.9.5 Schneider Electric Recent Developments

10.10 Balluff

10.10.1 Balluff Basic Information

10.10.2 Balluff LED Illumination for Machine Vision Product Overview

10.10.3 Balluff LED Illumination for Machine Vision Product Market Performance

10.10.4 Balluff Business Overview

10.10.5 Balluff Recent Developments

10.11 ProPhotonix

- 10.11.1 ProPhotonix Basic Information
- 10.11.2 ProPhotonix LED Illumination for Machine Vision Product Overview
- 10.11.3 ProPhotonix LED Illumination for Machine Vision Product Market Performance
- 10.11.4 ProPhotonix Business Overview
- 10.11.5 ProPhotonix Recent Developments
- 10.12 EFFILUX
 - 10.12.1 EFFILUX Basic Information
 - 10.12.2 EFFILUX LED Illumination for Machine Vision Product Overview
 - 10.12.3 EFFILUX LED Illumination for Machine Vision Product Market Performance
 - 10.12.4 EFFILUX Business Overview
 - 10.12.5 EFFILUX Recent Developments
- 10.13 Spectrum Illumination
 - 10.13.1 Spectrum Illumination Basic Information
 - 10.13.2 Spectrum Illumination LED Illumination for Machine Vision Product Overview
 - 10.13.3 Spectrum Illumination LED Illumination for Machine Vision Product Market Performance
 - 10.13.4 Spectrum Illumination Business Overview
 - 10.13.5 Spectrum Illumination Recent Developments
- 10.14 TPL Vision
 - 10.14.1 TPL Vision Basic Information
 - 10.14.2 TPL Vision LED Illumination for Machine Vision Product Overview
 - 10.14.3 TPL Vision LED Illumination for Machine Vision Product Market Performance
 - 10.14.4 TPL Vision Business Overview
 - 10.14.5 TPL Vision Recent Developments
- 10.15 Banner Engineering
 - 10.15.1 Banner Engineering Basic Information
 - 10.15.2 Banner Engineering LED Illumination for Machine Vision Product Overview
 - 10.15.3 Banner Engineering LED Illumination for Machine Vision Product Market Performance
 - 10.15.4 Banner Engineering Business Overview
 - 10.15.5 Banner Engineering Recent Developments

11 LED ILLUMINATION FOR MACHINE VISION MARKET FORECAST BY REGION

- 11.1 Global LED Illumination for Machine Vision Market Size Forecast
- 11.2 Global LED Illumination for Machine Vision Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe LED Illumination for Machine Vision Market Size Forecast by Country
 - 11.2.3 Asia Pacific LED Illumination for Machine Vision Market Size Forecast by

Region

11.2.4 South America LED Illumination for Machine Vision Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of LED Illumination for Machine Vision by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global LED Illumination for Machine Vision Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of LED Illumination for Machine Vision by Type (2026-2035)

12.1.2 Global LED Illumination for Machine Vision Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of LED Illumination for Machine Vision by Type (2026-2035)

12.2 Global LED Illumination for Machine Vision Market Forecast by Application (2026-2035)

12.2.1 Global LED Illumination for Machine Vision Sales (K Units) Forecast by Application

12.2.2 Global LED Illumination for Machine Vision Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global LED Illumination for Machine Vision Market Size by Type (M USD)

Table 4. Global LED Illumination for Machine Vision Market Size by Application

Table 5. LED Illumination for Machine Vision Market Size Comparison by Region (M USD)

Table 6. Global LED Illumination for Machine Vision Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global LED Illumination for Machine Vision Sales Market Share by Manufacturers (2020-2025)

Table 8. Global LED Illumination for Machine Vision Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global LED Illumination for Machine Vision Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in LED Illumination for Machine Vision as of 2025)

Table 11. Global Market LED Illumination for Machine Vision Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global LED Illumination for Machine Vision Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. LED Illumination for Machine Vision Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global LED Illumination for Machine Vision Sales by Type (K Units)

Table 27. Global LED Illumination for Machine Vision Market Size by Type (M USD)

Table 28. Global LED Illumination for Machine Vision Sales (K Units) by Type (2020-2025)

Table 29. Global LED Illumination for Machine Vision Sales Market Share by Type (2020-2025)

Table 30. Global LED Illumination for Machine Vision Market Size (M USD) by Type (2020-2025)

Table 31. Global LED Illumination for Machine Vision Market Share by Type (2020-2025)

Table 32. Global LED Illumination for Machine Vision Price (USD/Unit) by Type (2020-2025)

Table 33. Global LED Illumination for Machine Vision Sales (K Units) by Application

Table 34. Global LED Illumination for Machine Vision Market Size by Application

Table 35. Global LED Illumination for Machine Vision Sales by Application (2020-2025) & (K Units)

Table 36. Global LED Illumination for Machine Vision Sales Market Share by Application (2020-2025)

Table 37. Global LED Illumination for Machine Vision Market Size by Application (2020-2025) & (M USD)

Table 38. Global LED Illumination for Machine Vision Market Share by Application (2020-2025)

Table 39. Global LED Illumination for Machine Vision Sales Growth Rate by Application (2020-2025)

Table 40. Global LED Illumination for Machine Vision Sales by Region (2020-2025) & (K Units)

Table 41. Global LED Illumination for Machine Vision Sales Market Share by Region (2020-2025)

Table 42. Global LED Illumination for Machine Vision Market Size by Region (2020-2025) & (M USD)

Table 43. Global LED Illumination for Machine Vision Market Size by Region (2020-2025)

Table 44. North America LED Illumination for Machine Vision Sales by Country (2020-2025) & (K Units)

Table 45. North America LED Illumination for Machine Vision Market Size by Country (2020-2025) & (M USD)

Table 46. Europe LED Illumination for Machine Vision Sales by Country (2020-2025) & (K Units)

Table 47. Europe LED Illumination for Machine Vision Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific LED Illumination for Machine Vision Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific LED Illumination for Machine Vision Market Size by Region (2020-2025) & (M USD)

Table 50. South America LED Illumination for Machine Vision Sales by Country (2020-2025) & (K Units)

Table 51. South America LED Illumination for Machine Vision Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa LED Illumination for Machine Vision Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa LED Illumination for Machine Vision Market Size by Region (2020-2025) & (M USD)

Table 54. Global LED Illumination for Machine Vision Production (K Units) by Region(2020-2025)

Table 55. Global LED Illumination for Machine Vision Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global LED Illumination for Machine Vision Revenue Market Share by Region (2020-2025)

Table 57. Global LED Illumination for Machine Vision Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America LED Illumination for Machine Vision Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe LED Illumination for Machine Vision Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan LED Illumination for Machine Vision Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China LED Illumination for Machine Vision Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. OMRON Basic Information

Table 63. OMRON LED Illumination for Machine Vision Product Overview

Table 64. OMRON LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. OMRON Business Overview

Table 66. OMRON SWOT Analysis

Table 67. OMRON Recent Developments

Table 68. CCS Lighting Basic Information

Table 69. CCS Lighting LED Illumination for Machine Vision Product Overview

Table 70. CCS Lighting LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 71. CCS Lighting Business Overview
- Table 72. CCS Lighting SWOT Analysis
- Table 73. CCS Lighting Recent Developments
- Table 74. Advanced Illumination Basic Information
- Table 75. Advanced Illumination LED Illumination for Machine Vision Product Overview
- Table 76. Advanced Illumination LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Advanced Illumination Business Overview
- Table 78. Advanced Illumination SWOT Analysis
- Table 79. Advanced Illumination Recent Developments
- Table 80. Smart Vision Lights Basic Information
- Table 81. Smart Vision Lights LED Illumination for Machine Vision Product Overview
- Table 82. Smart Vision Lights LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Smart Vision Lights Business Overview
- Table 84. Smart Vision Lights Recent Developments
- Table 85. Siemens Basic Information
- Table 86. Siemens LED Illumination for Machine Vision Product Overview
- Table 87. Siemens LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. Siemens Business Overview
- Table 89. Siemens Recent Developments
- Table 90. Cognex Corporation Basic Information
- Table 91. Cognex Corporation LED Illumination for Machine Vision Product Overview
- Table 92. Cognex Corporation LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Cognex Corporation Business Overview
- Table 94. Cognex Corporation Recent Developments
- Table 95. HikVision Basic Information
- Table 96. HikVision LED Illumination for Machine Vision Product Overview
- Table 97. HikVision LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. HikVision Business Overview
- Table 99. HikVision Recent Developments
- Table 100. Moritex Basic Information
- Table 101. Moritex LED Illumination for Machine Vision Product Overview
- Table 102. Moritex LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Moritex Business Overview

- Table 104. Moritex Recent Developments
- Table 105. Schneider Electric Basic Information
- Table 106. Schneider Electric LED Illumination for Machine Vision Product Overview
- Table 107. Schneider Electric LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Schneider Electric Business Overview
- Table 109. Schneider Electric Recent Developments
- Table 110. Balluff Basic Information
- Table 111. Balluff LED Illumination for Machine Vision Product Overview
- Table 112. Balluff LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Balluff Business Overview
- Table 114. Balluff Recent Developments
- Table 115. ProPhotonix Basic Information
- Table 116. ProPhotonix LED Illumination for Machine Vision Product Overview
- Table 117. ProPhotonix LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. ProPhotonix Business Overview
- Table 119. ProPhotonix Recent Developments
- Table 120. EFFILUX Basic Information
- Table 121. EFFILUX LED Illumination for Machine Vision Product Overview
- Table 122. EFFILUX LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. EFFILUX Business Overview
- Table 124. EFFILUX Recent Developments
- Table 125. Spectrum Illumination Basic Information
- Table 126. Spectrum Illumination LED Illumination for Machine Vision Product Overview
- Table 127. Spectrum Illumination LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Spectrum Illumination Business Overview
- Table 129. Spectrum Illumination Recent Developments
- Table 130. TPL Vision Basic Information
- Table 131. TPL Vision LED Illumination for Machine Vision Product Overview
- Table 132. TPL Vision LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. TPL Vision Business Overview
- Table 134. TPL Vision Recent Developments
- Table 135. Banner Engineering Basic Information
- Table 136. Banner Engineering LED Illumination for Machine Vision Product Overview

Table 137. Banner Engineering LED Illumination for Machine Vision Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 138. Banner Engineering Business Overview

Table 139. Banner Engineering Recent Developments

Table 140. Global LED Illumination for Machine Vision Sales Forecast by Region (2026-2035) & (K Units)

Table 141. Global LED Illumination for Machine Vision Market Size Forecast by Region (2026-2035) & (M USD)

Table 142. North America LED Illumination for Machine Vision Sales Forecast by Country (2026-2035) & (K Units)

Table 143. North America LED Illumination for Machine Vision Market Size Forecast by Country (2026-2035) & (M USD)

Table 144. Europe LED Illumination for Machine Vision Sales Forecast by Country (2026-2035) & (K Units)

Table 145. Europe LED Illumination for Machine Vision Market Size Forecast by Country (2026-2035) & (M USD)

Table 146. Asia Pacific LED Illumination for Machine Vision Sales Forecast by Region (2026-2035) & (K Units)

Table 147. Asia Pacific LED Illumination for Machine Vision Market Size Forecast by Region (2026-2035) & (M USD)

Table 148. South America LED Illumination for Machine Vision Sales Forecast by Country (2026-2035) & (K Units)

Table 149. South America LED Illumination for Machine Vision Market Size Forecast by Country (2026-2035) & (M USD)

Table 150. Middle East and Africa LED Illumination for Machine Vision Sales Forecast by Country (2026-2035) & (Units)

Table 151. Middle East and Africa LED Illumination for Machine Vision Market Size Forecast by Country (2026-2035) & (M USD)

Table 152. Global LED Illumination for Machine Vision Sales Forecast by Type (2026-2035) & (K Units)

Table 153. Global LED Illumination for Machine Vision Market Size Forecast by Type (2026-2035) & (M USD)

Table 154. Global LED Illumination for Machine Vision Price Forecast by Type (2026-2035) & (USD/Unit)

Table 155. Global LED Illumination for Machine Vision Sales (K Units) Forecast by Application (2026-2035)

Table 156. Global LED Illumination for Machine Vision Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of LED Illumination for Machine Vision
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global LED Illumination for Machine Vision Market Size (M USD), 2025-2035
- Figure 5. Global LED Illumination for Machine Vision Market Size (M USD) (2020-2035)
- Figure 6. Global LED Illumination for Machine Vision Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. LED Illumination for Machine Vision Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global LED Illumination for Machine Vision Product Life Cycle
- Figure 13. LED Illumination for Machine Vision Sales Share by Manufacturers in 2025
- Figure 14. Global LED Illumination for Machine Vision Revenue Share by Manufacturers in 2025
- Figure 15. LED Illumination for Machine Vision Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market LED Illumination for Machine Vision Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by LED Illumination for Machine Vision Revenue in 2025
- Figure 18. Industry Chain Map of LED Illumination for Machine Vision
- Figure 19. Global LED Illumination for Machine Vision Market PEST Analysis
- Figure 20. Global LED Illumination for Machine Vision Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global LED Illumination for Machine Vision Market Share by Type
- Figure 27. Sales Market Share of LED Illumination for Machine Vision by Type (2020-2025)
- Figure 28. Sales Market Share of LED Illumination for Machine Vision by Type in 2025
- Figure 29. Market Share of LED Illumination for Machine Vision by Type (2020-2025)

- Figure 30. Market Share of LED Illumination for Machine Vision by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global LED Illumination for Machine Vision Market Share by Application
- Figure 33. Global LED Illumination for Machine Vision Sales Market Share by Application (2020-2025)
- Figure 34. Global LED Illumination for Machine Vision Sales Market Share by Application in 2025
- Figure 35. Global LED Illumination for Machine Vision Market Share by Application (2020-2025)
- Figure 36. Global LED Illumination for Machine Vision Market Share by Application in 2025
- Figure 37. Global LED Illumination for Machine Vision Sales Growth Rate by Application (2020-2025)
- Figure 38. Global LED Illumination for Machine Vision Sales Market Share by Region (2020-2025)
- Figure 39. Global LED Illumination for Machine Vision Market Size by Region (2020-2025)
- Figure 40. North America LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America LED Illumination for Machine Vision Sales Market Share by Country in 2024
- Figure 43. North America LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America LED Illumination for Machine Vision Market Size by Country in 2024
- Figure 45. U.S. LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada LED Illumination for Machine Vision Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada LED Illumination for Machine Vision Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico LED Illumination for Machine Vision Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico LED Illumination for Machine Vision Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe LED Illumination for Machine Vision Sales Market Share by Country in 2024

Figure 53. Europe LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe LED Illumination for Machine Vision Market Size by Country in 2024

Figure 55. Germany LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific LED Illumination for Machine Vision Sales and Growth Rate (K Units)

Figure 66. Asia Pacific LED Illumination for Machine Vision Sales Market Share by Region in 2024

Figure 67. Asia Pacific LED Illumination for Machine Vision Market Size by Region in 2024

Figure 68. China LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America LED Illumination for Machine Vision Sales and Growth Rate (K Units)

Figure 79. South America LED Illumination for Machine Vision Sales Market Share by Country in 2024

Figure 80. South America LED Illumination for Machine Vision Market Size and Growth Rate (M USD)

Figure 81. South America LED Illumination for Machine Vision Market Size by Country in 2024

Figure 82. Brazil LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa LED Illumination for Machine Vision Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa LED Illumination for Machine Vision Sales Market Share by Region in 2024

Figure 90. Middle East and Africa LED Illumination for Machine Vision Market Size and

Growth Rate (M USD)

Figure 91. Middle East and Africa LED Illumination for Machine Vision Market Size by Region in 2024

Figure 92. Saudi Arabia LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa LED Illumination for Machine Vision Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa LED Illumination for Machine Vision Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global LED Illumination for Machine Vision Production Market Share by Region (2020-2025)

Figure 103. North America LED Illumination for Machine Vision Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe LED Illumination for Machine Vision Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan LED Illumination for Machine Vision Production (K Units) Growth Rate (2020-2025)

Figure 106. China LED Illumination for Machine Vision Production (K Units) Growth Rate (2020-2025)

Figure 107. Global LED Illumination for Machine Vision Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global LED Illumination for Machine Vision Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global LED Illumination for Machine Vision Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global LED Illumination for Machine Vision Market Share Forecast by Type (2026-2035)

Figure 111. Global LED Illumination for Machine Vision Sales Forecast by Application (2026-2035)

Figure 112. Global LED Illumination for Machine Vision Market Share Forecast by Application (2026-2035)

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