

Global Monocular Vision Camera Module Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Monocular Vision Camera Module market size was valued at US\$ 8876 million in 2025 and is forecast to a readjusted size of US\$ 20292 million by 2032 with a CAGR of 12.5% during review period.

A Monocular Vision Camera Module is an imaging system that uses a single camera lens (single optical sensor) to capture visual information from the environment. It processes 2D images to extract features such as object detection, distance estimation (via algorithms like depth inference), motion tracking, and scene understanding. Since it uses only one camera, it is cost-effective, compact, and widely used in robotics, drones, mobile devices, and embedded AI vision systems. In 2025, global Monocular Vision Camera Module production reached approximately 227 million units, with an average global market price of around US\$ 38 per unit. Annual production capacity is approximately 260 million units. Gross Profit Margin is estimated at 32%. The monocular vision camera module industry chain is structured across three core layers. Upstream is dominated by image sensors, optical lenses, and IC components, where companies like Sony, Omnivision, and Onsemi provide the critical CMOS sensing capability. The midstream consists of camera module manufacturers that integrate sensors, lens stacks, actuators, and calibration software into compact vision units. Downstream applications include robotics, automotive ADAS, drones, and industrial inspection systems, where the modules are embedded as perception “eyes” for real-world decision-making. Monocular vision camera modules are shifting from simple imaging components to perception-enabling systems. Their value is increasingly defined not by resolution alone, but by integration with AI algorithms and system-level perception performance. The most important trend is the transition from consumer electronics

dominance to robotics and automotive intelligence, where demand is more fragmented but value per unit is significantly higher.

This report is a detailed and comprehensive analysis for global Monocular Vision Camera Module market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Resolution and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Monocular Vision Camera Module market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Monocular Vision Camera Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Monocular Vision Camera Module market size and forecasts, by Resolution and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Monocular Vision Camera Module market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Monocular Vision Camera Module

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Monocular Vision Camera Module market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sony, Samsung, Omnivision, Onsemi, Sunny Optical Technology, LG Innotek, Teledyne, Canon, Panasonic, Fujifilm, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Monocular Vision Camera Module market is split by Resolution and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Resolution, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Resolution

VGA Monocular Module

2MP / 1080p Module

5MP Module

8MP Module

12MP+ High-Resolution Module

Market segment by Interface Type

MIPI CSI Module

USB Camera Module

GMSL Module

FPD-Link Module

Ethernet Camera Module

CSI Direct Module

Market segment by Shutter Type

Rolling Shutter Module

Global Shutter Module

Market segment by Application

Consumer Electronics

Industrial Automation

Automotive

Aerospace & UAV

Others

Major players covered

Sony

Samsung

Omnivision

Onsemi

Sunny Optical Technology

LG Innotek

Teledyne

Canon

Panasonic

Fujifilm

STMicroelectronics

AMS Osram

Basler

Vision Components

O-Film Group

Primax Electronics

Chicony Electronics

Luxvisions Innovation

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Monocular Vision Camera Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Monocular Vision Camera Module, with price, sales quantity, revenue, and global market share of Monocular Vision Camera Module from 2021 to 2026.

Chapter 3, the Monocular Vision Camera Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Monocular Vision Camera Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Resolution and by Application, with sales market share and growth rate by Resolution, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Monocular Vision Camera Module market forecast, by regions, by Resolution, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Monocular Vision Camera Module.

Chapter 14 and 15, to describe Monocular Vision Camera Module sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Resolution

1.3.1 Overview: Global Monocular Vision Camera Module Consumption Value by Resolution: 2021 Versus 2025 Versus 2032

1.3.2 VGA Monocular Module

1.3.3 2MP / 1080p Module

1.3.4 5MP Module

1.3.5 8MP Module

1.3.6 12MP+ High-Resolution Module

1.4 Market Analysis by Interface Type

1.4.1 Overview: Global Monocular Vision Camera Module Consumption Value by Interface Type: 2021 Versus 2025 Versus 2032

1.4.2 MIPI CSI Module

1.4.3 USB Camera Module

1.4.4 GMSL Module

1.4.5 FPD-Link Module

1.4.6 Ethernet Camera Module

1.4.7 CSI Direct Module

1.5 Market Analysis by Shutter Type

1.5.1 Overview: Global Monocular Vision Camera Module Consumption Value by Shutter Type: 2021 Versus 2025 Versus 2032

1.5.2 Rolling Shutter Module

1.5.3 Global Shutter Module

1.6 Market Analysis by Application

1.6.1 Overview: Global Monocular Vision Camera Module Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Consumer Electronics

1.6.3 Industrial Automation

1.6.4 Automotive

1.6.5 Aerospace & UAV

1.6.6 Others

1.7 Global Monocular Vision Camera Module Market Size & Forecast

1.7.1 Global Monocular Vision Camera Module Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Monocular Vision Camera Module Sales Quantity (2021-2032)

1.7.3 Global Monocular Vision Camera Module Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Sony

2.1.1 Sony Details

2.1.2 Sony Major Business

2.1.3 Sony Monocular Vision Camera Module Product and Services

2.1.4 Sony Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Sony Recent Developments/Updates

2.2 Samsung

2.2.1 Samsung Details

2.2.2 Samsung Major Business

2.2.3 Samsung Monocular Vision Camera Module Product and Services

2.2.4 Samsung Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 Samsung Recent Developments/Updates

2.3 Omnivision

2.3.1 Omnivision Details

2.3.2 Omnivision Major Business

2.3.3 Omnivision Monocular Vision Camera Module Product and Services

2.3.4 Omnivision Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Omnivision Recent Developments/Updates

2.4 Onsemi

2.4.1 Onsemi Details

2.4.2 Onsemi Major Business

2.4.3 Onsemi Monocular Vision Camera Module Product and Services

2.4.4 Onsemi Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Onsemi Recent Developments/Updates

2.5 Sunny Optical Technology

2.5.1 Sunny Optical Technology Details

2.5.2 Sunny Optical Technology Major Business

2.5.3 Sunny Optical Technology Monocular Vision Camera Module Product and Services

2.5.4 Sunny Optical Technology Monocular Vision Camera Module Sales Quantity,

Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Sunny Optical Technology Recent Developments/Updates

2.6 LG Innotek

2.6.1 LG Innotek Details

2.6.2 LG Innotek Major Business

2.6.3 LG Innotek Monocular Vision Camera Module Product and Services

2.6.4 LG Innotek Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 LG Innotek Recent Developments/Updates

2.7 Teledyne

2.7.1 Teledyne Details

2.7.2 Teledyne Major Business

2.7.3 Teledyne Monocular Vision Camera Module Product and Services

2.7.4 Teledyne Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Teledyne Recent Developments/Updates

2.8 Canon

2.8.1 Canon Details

2.8.2 Canon Major Business

2.8.3 Canon Monocular Vision Camera Module Product and Services

2.8.4 Canon Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Canon Recent Developments/Updates

2.9 Panasonic

2.9.1 Panasonic Details

2.9.2 Panasonic Major Business

2.9.3 Panasonic Monocular Vision Camera Module Product and Services

2.9.4 Panasonic Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Panasonic Recent Developments/Updates

2.10 Fujifilm

2.10.1 Fujifilm Details

2.10.2 Fujifilm Major Business

2.10.3 Fujifilm Monocular Vision Camera Module Product and Services

2.10.4 Fujifilm Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Fujifilm Recent Developments/Updates

2.11 STMicroelectronics

2.11.1 STMicroelectronics Details

- 2.11.2 STMicroelectronics Major Business
- 2.11.3 STMicroelectronics Monocular Vision Camera Module Product and Services
- 2.11.4 STMicroelectronics Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.11.5 STMicroelectronics Recent Developments/Updates
- 2.12 AMS Osram
 - 2.12.1 AMS Osram Details
 - 2.12.2 AMS Osram Major Business
 - 2.12.3 AMS Osram Monocular Vision Camera Module Product and Services
 - 2.12.4 AMS Osram Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 AMS Osram Recent Developments/Updates
- 2.13 Basler
 - 2.13.1 Basler Details
 - 2.13.2 Basler Major Business
 - 2.13.3 Basler Monocular Vision Camera Module Product and Services
 - 2.13.4 Basler Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 Basler Recent Developments/Updates
- 2.14 Vision Components
 - 2.14.1 Vision Components Details
 - 2.14.2 Vision Components Major Business
 - 2.14.3 Vision Components Monocular Vision Camera Module Product and Services
 - 2.14.4 Vision Components Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 Vision Components Recent Developments/Updates
- 2.15 O-Film Group
 - 2.15.1 O-Film Group Details
 - 2.15.2 O-Film Group Major Business
 - 2.15.3 O-Film Group Monocular Vision Camera Module Product and Services
 - 2.15.4 O-Film Group Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 O-Film Group Recent Developments/Updates
- 2.16 Primax Electronics
 - 2.16.1 Primax Electronics Details
 - 2.16.2 Primax Electronics Major Business
 - 2.16.3 Primax Electronics Monocular Vision Camera Module Product and Services
 - 2.16.4 Primax Electronics Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

- 2.16.5 Primax Electronics Recent Developments/Updates
- 2.17 Chicony Electronics
 - 2.17.1 Chicony Electronics Details
 - 2.17.2 Chicony Electronics Major Business
 - 2.17.3 Chicony Electronics Monocular Vision Camera Module Product and Services
 - 2.17.4 Chicony Electronics Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.17.5 Chicony Electronics Recent Developments/Updates
- 2.18 Luxvisions Innovation
 - 2.18.1 Luxvisions Innovation Details
 - 2.18.2 Luxvisions Innovation Major Business
 - 2.18.3 Luxvisions Innovation Monocular Vision Camera Module Product and Services
 - 2.18.4 Luxvisions Innovation Monocular Vision Camera Module Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.18.5 Luxvisions Innovation Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: MONOCULAR VISION CAMERA MODULE BY MANUFACTURER

- 3.1 Global Monocular Vision Camera Module Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Monocular Vision Camera Module Revenue by Manufacturer (2021-2026)
- 3.3 Global Monocular Vision Camera Module Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Monocular Vision Camera Module by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Monocular Vision Camera Module Manufacturer Market Share in 2025
 - 3.4.3 Top 6 Monocular Vision Camera Module Manufacturer Market Share in 2025
- 3.5 Monocular Vision Camera Module Market: Overall Company Footprint Analysis
 - 3.5.1 Monocular Vision Camera Module Market: Region Footprint
 - 3.5.2 Monocular Vision Camera Module Market: Company Product Type Footprint
 - 3.5.3 Monocular Vision Camera Module Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Monocular Vision Camera Module Market Size by Region

4.1.1 Global Monocular Vision Camera Module Sales Quantity by Region (2021-2032)

4.1.2 Global Monocular Vision Camera Module Consumption Value by Region (2021-2032)

4.1.3 Global Monocular Vision Camera Module Average Price by Region (2021-2032)

4.2 North America Monocular Vision Camera Module Consumption Value (2021-2032)

4.3 Europe Monocular Vision Camera Module Consumption Value (2021-2032)

4.4 Asia-Pacific Monocular Vision Camera Module Consumption Value (2021-2032)

4.5 South America Monocular Vision Camera Module Consumption Value (2021-2032)

4.6 Middle East & Africa Monocular Vision Camera Module Consumption Value (2021-2032)

5 MARKET SEGMENT BY RESOLUTION

5.1 Global Monocular Vision Camera Module Sales Quantity by Resolution (2021-2032)

5.2 Global Monocular Vision Camera Module Consumption Value by Resolution (2021-2032)

5.3 Global Monocular Vision Camera Module Average Price by Resolution (2021-2032)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Monocular Vision Camera Module Sales Quantity by Application (2021-2032)

6.2 Global Monocular Vision Camera Module Consumption Value by Application (2021-2032)

6.3 Global Monocular Vision Camera Module Average Price by Application (2021-2032)

7 NORTH AMERICA

7.1 North America Monocular Vision Camera Module Sales Quantity by Resolution (2021-2032)

7.2 North America Monocular Vision Camera Module Sales Quantity by Application (2021-2032)

7.3 North America Monocular Vision Camera Module Market Size by Country

7.3.1 North America Monocular Vision Camera Module Sales Quantity by Country (2021-2032)

7.3.2 North America Monocular Vision Camera Module Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

8.1 Europe Monocular Vision Camera Module Sales Quantity by Resolution (2021-2032)

8.2 Europe Monocular Vision Camera Module Sales Quantity by Application (2021-2032)

8.3 Europe Monocular Vision Camera Module Market Size by Country

8.3.1 Europe Monocular Vision Camera Module Sales Quantity by Country (2021-2032)

8.3.2 Europe Monocular Vision Camera Module Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Monocular Vision Camera Module Sales Quantity by Resolution (2021-2032)

9.2 Asia-Pacific Monocular Vision Camera Module Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Monocular Vision Camera Module Market Size by Region

9.3.1 Asia-Pacific Monocular Vision Camera Module Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Monocular Vision Camera Module Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Monocular Vision Camera Module Sales Quantity by Resolution (2021-2032)

10.2 South America Monocular Vision Camera Module Sales Quantity by Application (2021-2032)

10.3 South America Monocular Vision Camera Module Market Size by Country

10.3.1 South America Monocular Vision Camera Module Sales Quantity by Country (2021-2032)

10.3.2 South America Monocular Vision Camera Module Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Monocular Vision Camera Module Sales Quantity by Resolution (2021-2032)

11.2 Middle East & Africa Monocular Vision Camera Module Sales Quantity by Application (2021-2032)

11.3 Middle East & Africa Monocular Vision Camera Module Market Size by Country

11.3.1 Middle East & Africa Monocular Vision Camera Module Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Monocular Vision Camera Module Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Monocular Vision Camera Module Market Drivers

12.2 Monocular Vision Camera Module Market Restraints

12.3 Monocular Vision Camera Module Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Monocular Vision Camera Module and Key Manufacturers

13.2 Manufacturing Costs Percentage of Monocular Vision Camera Module

13.3 Monocular Vision Camera Module Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Monocular Vision Camera Module Typical Distributors

14.3 Monocular Vision Camera Module Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. Global Monocular Vision Camera Module Consumption Value by Resolution, (USD Million), 2021 & 2025 & 2032
- Table 2. Global Monocular Vision Camera Module Consumption Value by Interface Type, (USD Million), 2021 & 2025 & 2032
- Table 3. Global Monocular Vision Camera Module Consumption Value by Shutter Type, (USD Million), 2021 & 2025 & 2032
- Table 4. Global Monocular Vision Camera Module Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 5. Sony Basic Information, Manufacturing Base and Competitors
- Table 6. Sony Major Business
- Table 7. Sony Monocular Vision Camera Module Product and Services
- Table 8. Sony Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 9. Sony Recent Developments/Updates
- Table 10. Samsung Basic Information, Manufacturing Base and Competitors
- Table 11. Samsung Major Business
- Table 12. Samsung Monocular Vision Camera Module Product and Services
- Table 13. Samsung Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 14. Samsung Recent Developments/Updates
- Table 15. Omnivision Basic Information, Manufacturing Base and Competitors
- Table 16. Omnivision Major Business
- Table 17. Omnivision Monocular Vision Camera Module Product and Services
- Table 18. Omnivision Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 19. Omnivision Recent Developments/Updates
- Table 20. Onsemi Basic Information, Manufacturing Base and Competitors
- Table 21. Onsemi Major Business
- Table 22. Onsemi Monocular Vision Camera Module Product and Services
- Table 23. Onsemi Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 24. Onsemi Recent Developments/Updates
- Table 25. Sunny Optical Technology Basic Information, Manufacturing Base and

Competitors

Table 26. Sunny Optical Technology Major Business

Table 27. Sunny Optical Technology Monocular Vision Camera Module Product and Services

Table 28. Sunny Optical Technology Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Sunny Optical Technology Recent Developments/Updates

Table 30. LG Innotek Basic Information, Manufacturing Base and Competitors

Table 31. LG Innotek Major Business

Table 32. LG Innotek Monocular Vision Camera Module Product and Services

Table 33. LG Innotek Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. LG Innotek Recent Developments/Updates

Table 35. Teledyne Basic Information, Manufacturing Base and Competitors

Table 36. Teledyne Major Business

Table 37. Teledyne Monocular Vision Camera Module Product and Services

Table 38. Teledyne Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Teledyne Recent Developments/Updates

Table 40. Canon Basic Information, Manufacturing Base and Competitors

Table 41. Canon Major Business

Table 42. Canon Monocular Vision Camera Module Product and Services

Table 43. Canon Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Canon Recent Developments/Updates

Table 45. Panasonic Basic Information, Manufacturing Base and Competitors

Table 46. Panasonic Major Business

Table 47. Panasonic Monocular Vision Camera Module Product and Services

Table 48. Panasonic Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Panasonic Recent Developments/Updates

Table 50. Fujifilm Basic Information, Manufacturing Base and Competitors

Table 51. Fujifilm Major Business

Table 52. Fujifilm Monocular Vision Camera Module Product and Services

Table 53. Fujifilm Monocular Vision Camera Module Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Fujifilm Recent Developments/Updates

Table 55. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 56. STMicroelectronics Major Business

Table 57. STMicroelectronics Monocular Vision Camera Module Product and Services

Table 58. STMicroelectronics Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. STMicroelectronics Recent Developments/Updates

Table 60. AMS Osram Basic Information, Manufacturing Base and Competitors

Table 61. AMS Osram Major Business

Table 62. AMS Osram Monocular Vision Camera Module Product and Services

Table 63. AMS Osram Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. AMS Osram Recent Developments/Updates

Table 65. Basler Basic Information, Manufacturing Base and Competitors

Table 66. Basler Major Business

Table 67. Basler Monocular Vision Camera Module Product and Services

Table 68. Basler Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Basler Recent Developments/Updates

Table 70. Vision Components Basic Information, Manufacturing Base and Competitors

Table 71. Vision Components Major Business

Table 72. Vision Components Monocular Vision Camera Module Product and Services

Table 73. Vision Components Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Vision Components Recent Developments/Updates

Table 75. O-Film Group Basic Information, Manufacturing Base and Competitors

Table 76. O-Film Group Major Business

Table 77. O-Film Group Monocular Vision Camera Module Product and Services

Table 78. O-Film Group Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. O-Film Group Recent Developments/Updates

Table 80. Primax Electronics Basic Information, Manufacturing Base and Competitors

Table 81. Primax Electronics Major Business

Table 82. Primax Electronics Monocular Vision Camera Module Product and Services

Table 83. Primax Electronics Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Primax Electronics Recent Developments/Updates

Table 85. Chicony Electronics Basic Information, Manufacturing Base and Competitors

Table 86. Chicony Electronics Major Business

Table 87. Chicony Electronics Monocular Vision Camera Module Product and Services

Table 88. Chicony Electronics Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 89. Chicony Electronics Recent Developments/Updates

Table 90. Luxvisions Innovation Basic Information, Manufacturing Base and Competitors

Table 91. Luxvisions Innovation Major Business

Table 92. Luxvisions Innovation Monocular Vision Camera Module Product and Services

Table 93. Luxvisions Innovation Monocular Vision Camera Module Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 94. Luxvisions Innovation Recent Developments/Updates

Table 95. Global Monocular Vision Camera Module Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 96. Global Monocular Vision Camera Module Revenue by Manufacturer (2021-2026) & (USD Million)

Table 97. Global Monocular Vision Camera Module Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 98. Market Position of Manufacturers in Monocular Vision Camera Module, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 99. Head Office and Monocular Vision Camera Module Production Site of Key Manufacturer

Table 100. Monocular Vision Camera Module Market: Company Product Type Footprint

Table 101. Monocular Vision Camera Module Market: Company Product Application Footprint

Table 102. Monocular Vision Camera Module New Market Entrants and Barriers to Market Entry

Table 103. Monocular Vision Camera Module Mergers, Acquisition, Agreements, and Collaborations

Table 104. Global Monocular Vision Camera Module Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 105. Global Monocular Vision Camera Module Sales Quantity by Region (2021-2026) & (K Units)

Table 106. Global Monocular Vision Camera Module Sales Quantity by Region (2027-2032) & (K Units)

Table 107. Global Monocular Vision Camera Module Consumption Value by Region (2021-2026) & (USD Million)

Table 108. Global Monocular Vision Camera Module Consumption Value by Region (2027-2032) & (USD Million)

Table 109. Global Monocular Vision Camera Module Average Price by Region (2021-2026) & (US\$/Unit)

Table 110. Global Monocular Vision Camera Module Average Price by Region (2027-2032) & (US\$/Unit)

Table 111. Global Monocular Vision Camera Module Sales Quantity by Resolution (2021-2026) & (K Units)

Table 112. Global Monocular Vision Camera Module Sales Quantity by Resolution (2027-2032) & (K Units)

Table 113. Global Monocular Vision Camera Module Consumption Value by Resolution (2021-2026) & (USD Million)

Table 114. Global Monocular Vision Camera Module Consumption Value by Resolution (2027-2032) & (USD Million)

Table 115. Global Monocular Vision Camera Module Average Price by Resolution (2021-2026) & (US\$/Unit)

Table 116. Global Monocular Vision Camera Module Average Price by Resolution (2027-2032) & (US\$/Unit)

Table 117. Global Monocular Vision Camera Module Sales Quantity by Application (2021-2026) & (K Units)

Table 118. Global Monocular Vision Camera Module Sales Quantity by Application (2027-2032) & (K Units)

Table 119. Global Monocular Vision Camera Module Consumption Value by Application (2021-2026) & (USD Million)

Table 120. Global Monocular Vision Camera Module Consumption Value by Application (2027-2032) & (USD Million)

Table 121. Global Monocular Vision Camera Module Average Price by Application (2021-2026) & (US\$/Unit)

Table 122. Global Monocular Vision Camera Module Average Price by Application (2027-2032) & (US\$/Unit)

Table 123. North America Monocular Vision Camera Module Sales Quantity by Resolution (2021-2026) & (K Units)

Table 124. North America Monocular Vision Camera Module Sales Quantity by

Resolution (2027-2032) & (K Units)

Table 125. North America Monocular Vision Camera Module Sales Quantity by Application (2021-2026) & (K Units)

Table 126. North America Monocular Vision Camera Module Sales Quantity by Application (2027-2032) & (K Units)

Table 127. North America Monocular Vision Camera Module Sales Quantity by Country (2021-2026) & (K Units)

Table 128. North America Monocular Vision Camera Module Sales Quantity by Country (2027-2032) & (K Units)

Table 129. North America Monocular Vision Camera Module Consumption Value by Country (2021-2026) & (USD Million)

Table 130. North America Monocular Vision Camera Module Consumption Value by Country (2027-2032) & (USD Million)

Table 131. Europe Monocular Vision Camera Module Sales Quantity by Resolution (2021-2026) & (K Units)

Table 132. Europe Monocular Vision Camera Module Sales Quantity by Resolution (2027-2032) & (K Units)

Table 133. Europe Monocular Vision Camera Module Sales Quantity by Application (2021-2026) & (K Units)

Table 134. Europe Monocular Vision Camera Module Sales Quantity by Application (2027-2032) & (K Units)

Table 135. Europe Monocular Vision Camera Module Sales Quantity by Country (2021-2026) & (K Units)

Table 136. Europe Monocular Vision Camera Module Sales Quantity by Country (2027-2032) & (K Units)

Table 137. Europe Monocular Vision Camera Module Consumption Value by Country (2021-2026) & (USD Million)

Table 138. Europe Monocular Vision Camera Module Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Asia-Pacific Monocular Vision Camera Module Sales Quantity by Resolution (2021-2026) & (K Units)

Table 140. Asia-Pacific Monocular Vision Camera Module Sales Quantity by Resolution (2027-2032) & (K Units)

Table 141. Asia-Pacific Monocular Vision Camera Module Sales Quantity by Application (2021-2026) & (K Units)

Table 142. Asia-Pacific Monocular Vision Camera Module Sales Quantity by Application (2027-2032) & (K Units)

Table 143. Asia-Pacific Monocular Vision Camera Module Sales Quantity by Region (2021-2026) & (K Units)

Table 144. Asia-Pacific Monocular Vision Camera Module Sales Quantity by Region (2027-2032) & (K Units)

Table 145. Asia-Pacific Monocular Vision Camera Module Consumption Value by Region (2021-2026) & (USD Million)

Table 146. Asia-Pacific Monocular Vision Camera Module Consumption Value by Region (2027-2032) & (USD Million)

Table 147. South America Monocular Vision Camera Module Sales Quantity by Resolution (2021-2026) & (K Units)

Table 148. South America Monocular Vision Camera Module Sales Quantity by Resolution (2027-2032) & (K Units)

Table 149. South America Monocular Vision Camera Module Sales Quantity by Application (2021-2026) & (K Units)

Table 150. South America Monocular Vision Camera Module Sales Quantity by Application (2027-2032) & (K Units)

Table 151. South America Monocular Vision Camera Module Sales Quantity by Country (2021-2026) & (K Units)

Table 152. South America Monocular Vision Camera Module Sales Quantity by Country (2027-2032) & (K Units)

Table 153. South America Monocular Vision Camera Module Consumption Value by Country (2021-2026) & (USD Million)

Table 154. South America Monocular Vision Camera Module Consumption Value by Country (2027-2032) & (USD Million)

Table 155. Middle East & Africa Monocular Vision Camera Module Sales Quantity by Resolution (2021-2026) & (K Units)

Table 156. Middle East & Africa Monocular Vision Camera Module Sales Quantity by Resolution (2027-2032) & (K Units)

Table 157. Middle East & Africa Monocular Vision Camera Module Sales Quantity by Application (2021-2026) & (K Units)

Table 158. Middle East & Africa Monocular Vision Camera Module Sales Quantity by Application (2027-2032) & (K Units)

Table 159. Middle East & Africa Monocular Vision Camera Module Sales Quantity by Country (2021-2026) & (K Units)

Table 160. Middle East & Africa Monocular Vision Camera Module Sales Quantity by Country (2027-2032) & (K Units)

Table 161. Middle East & Africa Monocular Vision Camera Module Consumption Value by Country (2021-2026) & (USD Million)

Table 162. Middle East & Africa Monocular Vision Camera Module Consumption Value by Country (2027-2032) & (USD Million)

Table 163. Monocular Vision Camera Module Raw Material

Table 164. Key Manufacturers of Monocular Vision Camera Module Raw Materials

Table 165. Monocular Vision Camera Module Typical Distributors

Table 166. Monocular Vision Camera Module Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Monocular Vision Camera Module Picture
- Figure 2. Global Monocular Vision Camera Module Revenue by Resolution, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Monocular Vision Camera Module Revenue Market Share by Resolution in 2025
- Figure 4. VGA Monocular Module Examples
- Figure 5. 2MP / 1080p Module Examples
- Figure 6. 5MP Module Examples
- Figure 7. 8MP Module Examples
- Figure 8. 12MP+ High-Resolution Module Examples
- Figure 9. Global Monocular Vision Camera Module Revenue by Interface Type, (USD Million), 2021 & 2025 & 2032
- Figure 10. Global Monocular Vision Camera Module Revenue Market Share by Interface Type in 2025
- Figure 11. MIPI CSI Module Examples
- Figure 12. USB Camera Module Examples
- Figure 13. GMSL Module Examples
- Figure 14. FPD-Link Module Examples
- Figure 15. Ethernet Camera Module Examples
- Figure 16. CSI Direct Module Examples
- Figure 17. Global Monocular Vision Camera Module Revenue by Shutter Type, (USD Million), 2021 & 2025 & 2032
- Figure 18. Global Monocular Vision Camera Module Revenue Market Share by Shutter Type in 2025
- Figure 19. Rolling Shutter Module Examples
- Figure 20. Global Shutter Module Examples
- Figure 21. Global Monocular Vision Camera Module Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 22. Global Monocular Vision Camera Module Revenue Market Share by Application in 2025
- Figure 23. Consumer Electronics Examples
- Figure 24. Industrial Automation Examples
- Figure 25. Automotive Examples
- Figure 26. Aerospace & UAV Examples
- Figure 27. Others Examples

Figure 28. Global Monocular Vision Camera Module Consumption Value, (USD Million): 2021 & 2025 & 2032

Figure 29. Global Monocular Vision Camera Module Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 30. Global Monocular Vision Camera Module Sales Quantity (2021-2032) & (K Units)

Figure 31. Global Monocular Vision Camera Module Price (2021-2032) & (US\$/Unit)

Figure 32. Global Monocular Vision Camera Module Sales Quantity Market Share by Manufacturer in 2025

Figure 33. Global Monocular Vision Camera Module Revenue Market Share by Manufacturer in 2025

Figure 34. Producer Shipments of Monocular Vision Camera Module by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 35. Top 3 Monocular Vision Camera Module Manufacturer (Revenue) Market Share in 2025

Figure 36. Top 6 Monocular Vision Camera Module Manufacturer (Revenue) Market Share in 2025

Figure 37. Global Monocular Vision Camera Module Sales Quantity Market Share by Region (2021-2032)

Figure 38. Global Monocular Vision Camera Module Consumption Value Market Share by Region (2021-2032)

Figure 39. North America Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 41. Asia-Pacific Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 42. South America Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 43. Middle East & Africa Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 44. Global Monocular Vision Camera Module Sales Quantity Market Share by Resolution (2021-2032)

Figure 45. Global Monocular Vision Camera Module Consumption Value Market Share by Resolution (2021-2032)

Figure 46. Global Monocular Vision Camera Module Average Price by Resolution (2021-2032) & (US\$/Unit)

Figure 47. Global Monocular Vision Camera Module Sales Quantity Market Share by Application (2021-2032)

Figure 48. Global Monocular Vision Camera Module Revenue Market Share by Application (2021-2032)

Figure 49. Global Monocular Vision Camera Module Average Price by Application (2021-2032) & (US\$/Unit)

Figure 50. North America Monocular Vision Camera Module Sales Quantity Market Share by Resolution (2021-2032)

Figure 51. North America Monocular Vision Camera Module Sales Quantity Market Share by Application (2021-2032)

Figure 52. North America Monocular Vision Camera Module Sales Quantity Market Share by Country (2021-2032)

Figure 53. North America Monocular Vision Camera Module Consumption Value Market Share by Country (2021-2032)

Figure 54. United States Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 55. Canada Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 56. Mexico Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 57. Europe Monocular Vision Camera Module Sales Quantity Market Share by Resolution (2021-2032)

Figure 58. Europe Monocular Vision Camera Module Sales Quantity Market Share by Application (2021-2032)

Figure 59. Europe Monocular Vision Camera Module Sales Quantity Market Share by Country (2021-2032)

Figure 60. Europe Monocular Vision Camera Module Consumption Value Market Share by Country (2021-2032)

Figure 61. Germany Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 62. France Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 63. United Kingdom Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 64. Russia Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 65. Italy Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 66. Asia-Pacific Monocular Vision Camera Module Sales Quantity Market Share by Resolution (2021-2032)

Figure 67. Asia-Pacific Monocular Vision Camera Module Sales Quantity Market Share

by Application (2021-2032)

Figure 68. Asia-Pacific Monocular Vision Camera Module Sales Quantity Market Share by Region (2021-2032)

Figure 69. Asia-Pacific Monocular Vision Camera Module Consumption Value Market Share by Region (2021-2032)

Figure 70. China Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 71. Japan Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 72. South Korea Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 73. India Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 74. Southeast Asia Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 75. Australia Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 76. South America Monocular Vision Camera Module Sales Quantity Market Share by Resolution (2021-2032)

Figure 77. South America Monocular Vision Camera Module Sales Quantity Market Share by Application (2021-2032)

Figure 78. South America Monocular Vision Camera Module Sales Quantity Market Share by Country (2021-2032)

Figure 79. South America Monocular Vision Camera Module Consumption Value Market Share by Country (2021-2032)

Figure 80. Brazil Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 81. Argentina Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 82. Middle East & Africa Monocular Vision Camera Module Sales Quantity Market Share by Resolution (2021-2032)

Figure 83. Middle East & Africa Monocular Vision Camera Module Sales Quantity Market Share by Application (2021-2032)

Figure 84. Middle East & Africa Monocular Vision Camera Module Sales Quantity Market Share by Country (2021-2032)

Figure 85. Middle East & Africa Monocular Vision Camera Module Consumption Value Market Share by Country (2021-2032)

Figure 86. Turkey Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 87. Egypt Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 88. Saudi Arabia Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 89. South Africa Monocular Vision Camera Module Consumption Value (2021-2032) & (USD Million)

Figure 90. Monocular Vision Camera Module Market Drivers

Figure 91. Monocular Vision Camera Module Market Restraints

Figure 92. Monocular Vision Camera Module Market Trends

Figure 93. Porters Five Forces Analysis

Figure 94. Manufacturing Cost Structure Analysis of Monocular Vision Camera Module in 2025

Figure 95. Manufacturing Process Analysis of Monocular Vision Camera Module

Figure 96. Monocular Vision Camera Module Industrial Chain

Figure 97. Sales Channel: Direct to End-User vs Distributors

Figure 98. Direct Channel Pros & Cons

Figure 99. Indirect Channel Pros & Cons

Figure 100. Methodology

Figure 101. Research Process and Data Source

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