

Global Edge AI Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Edge AI Camera market size is expected to reach \$ 277 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

In 2025, global Edge AI Camera production reached approximately 396k units, with an average global market price of around US\$450 per unit.

An edge AI camera is a class of intelligent visual sensing device that incorporates local AI inference capabilities, enabling deep learning-based image and video analytics directly on the device without continuous reliance on cloud processing. Compared with traditional cameras, edge AI cameras perform on-device object detection, behavior recognition, visual analysis, and intelligent triggering, offering reduced latency, bandwidth savings, enhanced privacy protection, and offline intelligence. They are widely used in smart security, industrial inspection, intelligent retail, traffic monitoring, and robotic vision applications.

Upstream of edge AI cameras consists of key components such as processors/AI accelerators, image sensors, optical lenses, AI algorithm frameworks/SDKs, and power/communication interfaces. AI compute engines may come from dedicated vision/NNPU providers like NVIDIA (Jetson), Qualcomm, Intel (Movidius/Curie), and Horizon Robotics, while image sensors are commonly supplied by Sony, OmniVision, and Samsung ISOCELL, and high-quality optics by Largan and Sunny Optical.

Midstream players are device integrators responsible for hardware assembly, algorithm optimization, and firmware development. Downstream are solution and system integrators deploying edge AI cameras in smart security (e.g., Hikvision, Dahua), industrial automation (e.g., Keyence, Cognex), intelligent transportation, smart retail, and robotics for real-time visual recognition and edge intelligence.

The annual production capacity of a single-line Edge AI Camera is approximately 10k units, with a gross profit margin of approximately 40%-60%.

The edge AI camera market is evolving from the ?AI upgrade of traditional surveillance

cameras? toward an ?edge vision intelligence platform.? Simple frame capture and transmission are being replaced by on-device intelligent vision inference that serves as a real-time perception and decision trigger node. Market trends emphasize stronger real-time performance and reduced reliance on bandwidth as AI models and low-power edge inference mature, while vendors increasingly enhance multi-sensor fusion (RGB + depth/TOF/thermal) and richer application SDKs and deployment toolchains. Autonomous learning/online updates, explainable AI, and model security are also gaining traction. Key growth drivers include rising demand for real-time intelligent analysis, the edge?s advantage in reducing cloud dependency, enterprise prioritization of data privacy and compliance, and cross-industry pushes for higher automation and intelligence. Headwinds include the trade-off between compute power and energy consumption in edge devices, algorithm and model optimization complexity, scene variability and data annotation/generalization challenges, fragmented standards and compatibility issues, pricing competition, and evolving security/privacy regulations for on-device AI inference. This requires market players to balance long-term strategies around technology depth, ecosystem development, and sustainable operations. This report studies the global Edge AI Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Edge AI Camera and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Edge AI Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Edge AI Camera total production and demand, 2021-2032, (K Units)

Global Edge AI Camera total production value, 2021-2032, (USD Million)

Global Edge AI Camera production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Edge AI Camera consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Edge AI Camera domestic production, consumption, key domestic manufacturers and share

Global Edge AI Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Edge AI Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Edge AI Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Edge AI Camera market based on the

following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include I-PRO, Vmukti, Adiance Technologies, Avinton, Maxlab, 3DiVi, Advantech, The Imaging Source, Adlink Technology, Prolink, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Edge AI Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Edge AI Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Edge AI Camera Market, Segmentation by Type:

Bullet Edge AI Camera

Dome Edge AI Camera

Others

Global Edge AI Camera Market, Segmentation by Visual Performance:

Monocular

Binocular

Multi-View

Global Edge AI Camera Market, Segmentation by Functions:

2D Vision

3D Perception

Global Edge AI Camera Market, Segmentation by Application:

Smart City

Smart Home

Smart Retail

Automobile Industry

Industrial

Others

Companies Profiled:

I-PRO

Vmukti

Adiance Technologies

Avinton

Maxlab

3DiVi

Advantech

The Imaging Source

Adlink Technology

Prolink

Macnica Anstek

Pixoel

Key Questions Answered:

1. How big is the global Edge AI Camera market?
2. What is the demand of the global Edge AI Camera market?
3. What is the year over year growth of the global Edge AI Camera market?
4. What is the production and production value of the global Edge AI Camera market?
5. Who are the key producers in the global Edge AI Camera market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Edge AI Camera Production Value by Manufacturer (2021-2026)

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

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Edge AI Camera Production Value Comparison
 - 4.1.1 United States VS China: Edge AI Camera Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Edge AI Camera Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Edge AI Camera Production Comparison
 - 4.2.1 United States VS China: Edge AI Camera Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Edge AI Camera Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Edge AI Camera Consumption Comparison
 - 4.3.1 United States VS China: Edge AI Camera Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Edge AI Camera Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Edge AI Camera Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Edge AI Camera Manufacturers, Headquarters and Production Site (States, Country)
 - 4.4.2 United States Based Manufacturers Edge AI Camera Production Value

(2021-2026)

4.4.3 United States Based Manufacturers Edge AI Camera Production (2021-2026)

4.5 China Based Edge AI Camera Manufacturers and Market Share

4.5.1 China Based Edge AI Camera Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Edge AI Camera Production Value (2021-2026)

4.5.3 China Based Manufacturers Edge AI Camera Production (2021-2026)

4.6 Rest of World Based Edge AI Camera Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Edge AI Camera Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Edge AI Camera Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Edge AI Camera Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Edge AI Camera Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Bullet Edge AI Camera

5.2.2 Dome Edge AI Camera

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Edge AI Camera Production by Type (2021-2032)

5.3.2 World Edge AI Camera Production Value by Type (2021-2032)

5.3.3 World Edge AI Camera Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VISUAL PERFORMANCE

6.1 World Edge AI Camera Market Size Overview by Visual Performance: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Visual Performance

6.2.1 Monocular

6.2.2 Binocular

6.2.3 Multi-View

6.3 Market Segment by Visual Performance

6.3.1 World Edge AI Camera Production by Visual Performance (2021-2032)

6.3.2 World Edge AI Camera Production Value by Visual Performance (2021-2032)

6.3.3 World Edge AI Camera Average Price by Visual Performance (2021-2032)

7 MARKET ANALYSIS BY FUNCTIONS

7.1 World Edge AI Camera Market Size Overview by Functions: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Functions

7.2.1 2D Vision

7.2.2 3D Perception

7.3 Market Segment by Functions

7.3.1 World Edge AI Camera Production by Functions (2021-2032)

7.3.2 World Edge AI Camera Production Value by Functions (2021-2032)

7.3.3 World Edge AI Camera Average Price by Functions (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Edge AI Camera Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Smart City

8.2.2 Smart Home

8.2.3 Smart Retail

8.2.4 Automobile Industry

8.2.5 Industrial

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Edge AI Camera Production by Application (2021-2032)

8.3.2 World Edge AI Camera Production Value by Application (2021-2032)

8.3.3 World Edge AI Camera Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 I-PRO

9.1.1 I-PRO Details

9.1.2 I-PRO Major Business

9.1.3 I-PRO Edge AI Camera Product and Services

9.1.4 I-PRO Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 I-PRO Recent Developments/Updates

9.1.6 I-PRO Competitive Strengths & Weaknesses

9.2 Vmukti

9.2.1 Vmukti Details

- 9.2.2 Vmukti Major Business
- 9.2.3 Vmukti Edge AI Camera Product and Services
- 9.2.4 Vmukti Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Vmukti Recent Developments/Updates
- 9.2.6 Vmukti Competitive Strengths & Weaknesses
- 9.3 Adiance Technologies
 - 9.3.1 Adiance Technologies Details
 - 9.3.2 Adiance Technologies Major Business
 - 9.3.3 Adiance Technologies Edge AI Camera Product and Services
 - 9.3.4 Adiance Technologies Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Adiance Technologies Recent Developments/Updates
 - 9.3.6 Adiance Technologies Competitive Strengths & Weaknesses
- 9.4 Avinton
 - 9.4.1 Avinton Details
 - 9.4.2 Avinton Major Business
 - 9.4.3 Avinton Edge AI Camera Product and Services
 - 9.4.4 Avinton Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Avinton Recent Developments/Updates
 - 9.4.6 Avinton Competitive Strengths & Weaknesses
- 9.5 Maxlab
 - 9.5.1 Maxlab Details
 - 9.5.2 Maxlab Major Business
 - 9.5.3 Maxlab Edge AI Camera Product and Services
 - 9.5.4 Maxlab Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Maxlab Recent Developments/Updates
 - 9.5.6 Maxlab Competitive Strengths & Weaknesses
- 9.6 3DiVi
 - 9.6.1 3DiVi Details
 - 9.6.2 3DiVi Major Business
 - 9.6.3 3DiVi Edge AI Camera Product and Services
 - 9.6.4 3DiVi Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 3DiVi Recent Developments/Updates
 - 9.6.6 3DiVi Competitive Strengths & Weaknesses
- 9.7 Advantech

- 9.7.1 Advantech Details
- 9.7.2 Advantech Major Business
- 9.7.3 Advantech Edge AI Camera Product and Services
- 9.7.4 Advantech Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.7.5 Advantech Recent Developments/Updates
- 9.7.6 Advantech Competitive Strengths & Weaknesses
- 9.8 The Imaging Source
 - 9.8.1 The Imaging Source Details
 - 9.8.2 The Imaging Source Major Business
 - 9.8.3 The Imaging Source Edge AI Camera Product and Services
 - 9.8.4 The Imaging Source Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 The Imaging Source Recent Developments/Updates
 - 9.8.6 The Imaging Source Competitive Strengths & Weaknesses
- 9.9 Adlink Technology
 - 9.9.1 Adlink Technology Details
 - 9.9.2 Adlink Technology Major Business
 - 9.9.3 Adlink Technology Edge AI Camera Product and Services
 - 9.9.4 Adlink Technology Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Adlink Technology Recent Developments/Updates
 - 9.9.6 Adlink Technology Competitive Strengths & Weaknesses
- 9.10 Prolink
 - 9.10.1 Prolink Details
 - 9.10.2 Prolink Major Business
 - 9.10.3 Prolink Edge AI Camera Product and Services
 - 9.10.4 Prolink Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Prolink Recent Developments/Updates
 - 9.10.6 Prolink Competitive Strengths & Weaknesses
- 9.11 Macnica Anstek
 - 9.11.1 Macnica Anstek Details
 - 9.11.2 Macnica Anstek Major Business
 - 9.11.3 Macnica Anstek Edge AI Camera Product and Services
 - 9.11.4 Macnica Anstek Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Macnica Anstek Recent Developments/Updates
 - 9.11.6 Macnica Anstek Competitive Strengths & Weaknesses

9.12 Pixoel

9.12.1 Pixoel Details

9.12.2 Pixoel Major Business

9.12.3 Pixoel Edge AI Camera Product and Services

9.12.4 Pixoel Edge AI Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Pixoel Recent Developments/Updates

9.12.6 Pixoel Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Edge AI Camera Industry Chain

10.2 Edge AI Camera Upstream Analysis

10.2.1 Edge AI Camera Core Raw Materials

10.2.2 Main Manufacturers of Edge AI Camera Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Edge AI Camera Production Mode

10.6 Edge AI Camera Procurement Model

10.7 Edge AI Camera Industry Sales Model and Sales Channels

10.7.1 Edge AI Camera Sales Model

10.7.2 Edge AI Camera Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Edge AI Camera Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Edge AI Camera Production Value by Region (2021-2026) & (USD Million)

Table 3. World Edge AI Camera Production Value by Region (2027-2032) & (USD Million)

Table 4. World Edge AI Camera Production Value Market Share by Region (2021-2026)

Table 5. World Edge AI Camera Production Value Market Share by Region (2027-2032)

Table 6. World Edge AI Camera Production by Region (2021-2026) & (K Units)

Table 7. World Edge AI Camera Production by Region (2027-2032) & (K Units)

Table 8. World Edge AI Camera Production Market Share by Region (2021-2026)

Table 9. World Edge AI Camera Production Market Share by Region (2027-2032)

Table 10. World Edge AI Camera Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Edge AI Camera Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Edge AI Camera Major Market Trends

Table 13. World Edge AI Camera Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Edge AI Camera Consumption by Region (2021-2026) & (K Units)

Table 15. World Edge AI Camera Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Edge AI Camera Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Edge AI Camera Producers in 2025

Table 18. World Edge AI Camera Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Edge AI Camera Producers in 2025

Table 20. World Edge AI Camera Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Edge AI Camera Company Evaluation Quadrant

Table 22. World Edge AI Camera Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Edge AI Camera Production Site of Key Manufacturer

Table 24. Edge AI Camera Market: Company Product Type Footprint

Table 25. Edge AI Camera Market: Company Product Application Footprint

Table 26. Edge AI Camera Competitive Factors

Table 27. Edge AI Camera New Entrant and Capacity Expansion Plans

Table 28. Edge AI Camera Mergers & Acquisitions Activity

Table 29. United States VS China Edge AI Camera Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Edge AI Camera Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Edge AI Camera Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Edge AI Camera Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Edge AI Camera Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Edge AI Camera Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Edge AI Camera Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Edge AI Camera Production Market Share (2021-2026)

Table 37. China Based Edge AI Camera Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Edge AI Camera Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Edge AI Camera Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Edge AI Camera Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Edge AI Camera Production Market Share (2021-2026)

Table 42. Rest of World Based Edge AI Camera Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Edge AI Camera Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Edge AI Camera Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Edge AI Camera Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Edge AI Camera Production Market Share (2021-2026)

Table 47. World Edge AI Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

- Table 48. World Edge AI Camera Production by Type (2021-2026) & (K Units)
- Table 49. World Edge AI Camera Production by Type (2027-2032) & (K Units)
- Table 50. World Edge AI Camera Production Value by Type (2021-2026) & (USD Million)
- Table 51. World Edge AI Camera Production Value by Type (2027-2032) & (USD Million)
- Table 52. World Edge AI Camera Average Price by Type (2021-2026) & (US\$/Unit)
- Table 53. World Edge AI Camera Average Price by Type (2027-2032) & (US\$/Unit)
- Table 54. World Edge AI Camera Production Value by Visual Performance, (USD Million), 2021 & 2025 & 2032
- Table 55. World Edge AI Camera Production by Visual Performance (2021-2026) & (K Units)
- Table 56. World Edge AI Camera Production by Visual Performance (2027-2032) & (K Units)
- Table 57. World Edge AI Camera Production Value by Visual Performance (2021-2026) & (USD Million)
- Table 58. World Edge AI Camera Production Value by Visual Performance (2027-2032) & (USD Million)
- Table 59. World Edge AI Camera Average Price by Visual Performance (2021-2026) & (US\$/Unit)
- Table 60. World Edge AI Camera Average Price by Visual Performance (2027-2032) & (US\$/Unit)
- Table 61. World Edge AI Camera Production Value by Functions, (USD Million), 2021 & 2025 & 2032
- Table 62. World Edge AI Camera Production by Functions (2021-2026) & (K Units)
- Table 63. World Edge AI Camera Production by Functions (2027-2032) & (K Units)
- Table 64. World Edge AI Camera Production Value by Functions (2021-2026) & (USD Million)
- Table 65. World Edge AI Camera Production Value by Functions (2027-2032) & (USD Million)
- Table 66. World Edge AI Camera Average Price by Functions (2021-2026) & (US\$/Unit)
- Table 67. World Edge AI Camera Average Price by Functions (2027-2032) & (US\$/Unit)
- Table 68. World Edge AI Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Table 69. World Edge AI Camera Production by Application (2021-2026) & (K Units)
- Table 70. World Edge AI Camera Production by Application (2027-2032) & (K Units)
- Table 71. World Edge AI Camera Production Value by Application (2021-2026) & (USD Million)
- Table 72. World Edge AI Camera Production Value by Application (2027-2032) & (USD Million)

Million)

Table 73. World Edge AI Camera Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Edge AI Camera Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. I-PRO Basic Information, Manufacturing Base and Competitors

Table 76. I-PRO Major Business

Table 77. I-PRO Edge AI Camera Product and Services

Table 78. I-PRO Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. I-PRO Recent Developments/Updates

Table 80. I-PRO Competitive Strengths & Weaknesses

Table 81. Vmukti Basic Information, Manufacturing Base and Competitors

Table 82. Vmukti Major Business

Table 83. Vmukti Edge AI Camera Product and Services

Table 84. Vmukti Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Vmukti Recent Developments/Updates

Table 86. Vmukti Competitive Strengths & Weaknesses

Table 87. Adiance Technologies Basic Information, Manufacturing Base and Competitors

Table 88. Adiance Technologies Major Business

Table 89. Adiance Technologies Edge AI Camera Product and Services

Table 90. Adiance Technologies Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Adiance Technologies Recent Developments/Updates

Table 92. Adiance Technologies Competitive Strengths & Weaknesses

Table 93. Avinton Basic Information, Manufacturing Base and Competitors

Table 94. Avinton Major Business

Table 95. Avinton Edge AI Camera Product and Services

Table 96. Avinton Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Avinton Recent Developments/Updates

Table 98. Avinton Competitive Strengths & Weaknesses

Table 99. Maxlab Basic Information, Manufacturing Base and Competitors

Table 100. Maxlab Major Business

Table 101. Maxlab Edge AI Camera Product and Services

Table 102. Maxlab Edge AI Camera Production (K Units), Price (US\$/Unit), Production

Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Maxlab Recent Developments/Updates

Table 104. Maxlab Competitive Strengths & Weaknesses

Table 105. 3DiVi Basic Information, Manufacturing Base and Competitors

Table 106. 3DiVi Major Business

Table 107. 3DiVi Edge AI Camera Product and Services

Table 108. 3DiVi Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. 3DiVi Recent Developments/Updates

Table 110. 3DiVi Competitive Strengths & Weaknesses

Table 111. Advantech Basic Information, Manufacturing Base and Competitors

Table 112. Advantech Major Business

Table 113. Advantech Edge AI Camera Product and Services

Table 114. Advantech Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Advantech Recent Developments/Updates

Table 116. Advantech Competitive Strengths & Weaknesses

Table 117. The Imaging Source Basic Information, Manufacturing Base and Competitors

Table 118. The Imaging Source Major Business

Table 119. The Imaging Source Edge AI Camera Product and Services

Table 120. The Imaging Source Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. The Imaging Source Recent Developments/Updates

Table 122. The Imaging Source Competitive Strengths & Weaknesses

Table 123. Adlink Technology Basic Information, Manufacturing Base and Competitors

Table 124. Adlink Technology Major Business

Table 125. Adlink Technology Edge AI Camera Product and Services

Table 126. Adlink Technology Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Adlink Technology Recent Developments/Updates

Table 128. Adlink Technology Competitive Strengths & Weaknesses

Table 129. Prolink Basic Information, Manufacturing Base and Competitors

Table 130. Prolink Major Business

Table 131. Prolink Edge AI Camera Product and Services

Table 132. Prolink Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Prolink Recent Developments/Updates

Table 134. Prolink Competitive Strengths & Weaknesses

- Table 135. Macnica Anstek Basic Information, Manufacturing Base and Competitors
- Table 136. Macnica Anstek Major Business
- Table 137. Macnica Anstek Edge AI Camera Product and Services
- Table 138. Macnica Anstek Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Macnica Anstek Recent Developments/Updates
- Table 140. Macnica Anstek Competitive Strengths & Weaknesses
- Table 141. Pixoel Basic Information, Manufacturing Base and Competitors
- Table 142. Pixoel Major Business
- Table 143. Pixoel Edge AI Camera Product and Services
- Table 144. Pixoel Edge AI Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Pixoel Recent Developments/Updates
- Table 146. Pixoel Competitive Strengths & Weaknesses
- Table 147. Global Key Players of Edge AI Camera Upstream (Raw Materials)
- Table 148. Global Edge AI Camera Typical Customers
- Table 149. Edge AI Camera Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Edge AI Camera Picture

Figure 2. World Edge AI Camera Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Edge AI Camera Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Edge AI Camera Production (2021-2032) & (K Units)

Figure 5. World Edge AI Camera Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Edge AI Camera Production Value Market Share by Region (2021-2032)

Figure 7. World Edge AI Camera Production Market Share by Region (2021-2032)

Figure 8. North America Edge AI Camera Production (2021-2032) & (K Units)

Figure 9. Europe Edge AI Camera Production (2021-2032) & (K Units)

Figure 10. China Edge AI Camera Production (2021-2032) & (K Units)

Figure 11. Japan Edge AI Camera Production (2021-2032) & (K Units)

Figure 12. Edge AI Camera Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 15. World Edge AI Camera Consumption Market Share by Region (2021-2032)

Figure 16. United States Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 17. China Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 18. Europe Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 19. Japan Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 20. South Korea Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 22. India Edge AI Camera Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Edge AI Camera by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Edge AI Camera Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Edge AI Camera Markets in 2025

Figure 26. United States VS China: Edge AI Camera Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Edge AI Camera Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Edge AI Camera Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Edge AI Camera Production Market Share 2025

Figure 30. China Based Manufacturers Edge AI Camera Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Edge AI Camera Production Market Share 2025

Figure 32. World Edge AI Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Edge AI Camera Production Value Market Share by Type in 2025

Figure 34. Bullet Edge AI Camera

Figure 35. Dome Edge AI Camera

Figure 36. Others

Figure 37. World Edge AI Camera Production Market Share by Type (2021-2032)

Figure 38. World Edge AI Camera Production Value Market Share by Type (2021-2032)

Figure 39. World Edge AI Camera Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Edge AI Camera Production Value by Visual Performance, (USD Million), 2021 & 2025 & 2032

Figure 41. World Edge AI Camera Production Value Market Share by Visual Performance in 2025

Figure 42. Monocular

Figure 43. Binocular

Figure 44. Multi-View

Figure 45. World Edge AI Camera Production Market Share by Visual Performance (2021-2032)

Figure 46. World Edge AI Camera Production Value Market Share by Visual Performance (2021-2032)

Figure 47. World Edge AI Camera Average Price by Visual Performance (2021-2032) & (US\$/Unit)

Figure 48. World Edge AI Camera Production Value by Functions, (USD Million), 2021 & 2025 & 2032

Figure 49. World Edge AI Camera Production Value Market Share by Functions in 2025

Figure 50. 2D Vision

Figure 51. 3D Perception

Figure 52. World Edge AI Camera Production Market Share by Functions (2021-2032)

Figure 53. World Edge AI Camera Production Value Market Share by Functions (2021-2032)

Figure 54. World Edge AI Camera Average Price by Functions (2021-2032) & (US\$/Unit)

Figure 55. World Edge AI Camera Production Value by Application, (USD Million), 2021

& 2025 & 2032

Figure 56. World Edge AI Camera Production Value Market Share by Application in 2025

Figure 57. Smart City

Figure 58. Smart Home

Figure 59. Smart Retail

Figure 60. Automobile Industry

Figure 61. Industrial

Figure 62. Others

Figure 63. World Edge AI Camera Production Market Share by Application (2021-2032)

Figure 64. World Edge AI Camera Production Value Market Share by Application (2021-2032)

Figure 65. World Edge AI Camera Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Edge AI Camera Industry Chain

Figure 67. Edge AI Camera Procurement Model

Figure 68. Edge AI Camera Sales Model

Figure 69. Edge AI Camera Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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