

Global Ultra-HD AI Perception Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Ultra-HD AI Perception Camera market size is expected to reach \$ 1155 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

In 2025, the global production of ultra-high-definition (UHD) AI-sensing cameras reached 15.843 million units, with an average selling price of \$50 per unit. The global annual production capacity of UHD AI-sensing cameras is approximately 22 million units, with a gross profit margin of approximately 24.5%. UHD AI-sensing cameras are more advanced surveillance equipment than traditional high-definition cameras, characterized by higher resolution and integration of more sophisticated artificial intelligence technologies, aiming to improve monitoring and analysis capabilities. The upstream of UHD AI-sensing cameras includes image sensor chips, optical lenses, and communication modules. The midstream consists of UHD AI-sensing camera manufacturers, while downstream applications are mainly in industries such as transportation, security, and construction.

The ultra-high-definition AI sensing camera market is experiencing rapid growth, with technological integration and scenario expansion becoming the core driving forces. At the technological level, continuous improvements in 4K/8K ultra-high-definition imaging, AI algorithm optimization, and edge computing capabilities enable cameras to achieve more accurate real-time analysis, behavior recognition, and multimodal perception, meeting the intelligent needs of complex scenarios. In terms of market applications, the consumer market, driven by the widespread adoption of smart homes and the increasing demand for home security, is pushing products towards emotional and service-oriented features, such as baby care and pet interaction, which are becoming highlights. The enterprise market benefits from digital transformation, with a surge in

demand for high-definition monitoring, behavior analysis, and passenger flow statistics in industries such as finance, transportation, and education, driving cameras to transform from security tools into operational management assistants. In industrial scenarios, the demand for equipment status monitoring and production process optimization in intelligent manufacturing is rapidly increasing the penetration rate of industrial-grade ultra-high-definition AI sensing cameras. At the policy level, the national '14th Five-Year Plan' and policies in areas such as smart cities and public safety are promoting the coverage of smart cameras in urban and rural areas and their application in various industries, providing a broad market space. However, data privacy protection and compliance requirements are becoming increasingly stringent, becoming key considerations for enterprise development.

This report studies the global Ultra-HD AI Perception Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultra-HD AI Perception 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 Ultra-HD AI Perception Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Ultra-HD AI Perception Camera total production and demand, 2021-2032, (K Units)

Global Ultra-HD AI Perception Camera total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Ultra-HD AI Perception Camera domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Ultra-HD AI Perception 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 Axis Communications, Bosch Security Systems, Hanwha Techwin, Arlo Technologies, Cisco, Logitech, EZVIZ, Hikvision, MEGVII, GUANGZHOU BOSMA CORP, 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 Ultra-HD AI Perception 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 Ultra-HD AI Perception Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultra-HD AI Perception Camera Market, Segmentation by Type:

Cylinder Machine

Hemisphere

Global Ultra-HD AI Perception Camera Market, Segmentation by Resolution:

4K and Above Ultra HD

2K-4K High Definition

1K-2K Basic High Definition

Global Ultra-HD AI Perception Camera Market, Segmentation by Interface:

Wired Interface

Wireless Interface

Hybrid Interface

Global Ultra-HD AI Perception Camera Market, Segmentation by Application:

Transportation

Security

Construction

Industrial

Financial

Others

Companies Profiled:

Axis Communications

Bosch Security Systems

Hanwha Techwin

Arlo Technologies

Cisco

Logitech

EZVIZ

Hikvision

MEGVII

GUANGZHOU BOSMA CORP

ALCIDAE

SmartSens Technology

KINGSUN

Reolink

HUNAN SHARING

Maxvision

Dahua Technology

CGU

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Ultra-HD AI Perception Camera Production Value by Manufacturer (2021-2026)
- 3.2 World Ultra-HD AI Perception Camera Production by Manufacturer (2021-2026)
- 3.3 World Ultra-HD AI Perception Camera Average Price by Manufacturer (2021-2026)
- 3.4 Ultra-HD AI Perception Camera Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Ultra-HD AI Perception Camera Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Ultra-HD AI Perception Camera in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Ultra-HD AI Perception Camera in 2025
- 3.6 Ultra-HD AI Perception Camera Market: Overall Company Footprint Analysis
 - 3.6.1 Ultra-HD AI Perception Camera Market: Region Footprint
 - 3.6.2 Ultra-HD AI Perception Camera Market: Company Product Type Footprint
 - 3.6.3 Ultra-HD AI Perception 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: Ultra-HD AI Perception Camera Production Value Comparison
 - 4.1.1 United States VS China: Ultra-HD AI Perception Camera Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Ultra-HD AI Perception Camera Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Ultra-HD AI Perception Camera Production Comparison
 - 4.2.1 United States VS China: Ultra-HD AI Perception Camera Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Ultra-HD AI Perception Camera Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Ultra-HD AI Perception Camera Consumption Comparison
 - 4.3.1 United States VS China: Ultra-HD AI Perception Camera Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Ultra-HD AI Perception Camera Consumption Market

Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Ultra-HD AI Perception Camera Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Ultra-HD AI Perception Camera Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ultra-HD AI Perception Camera Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ultra-HD AI Perception Camera Production (2021-2026)

4.5 China Based Ultra-HD AI Perception Camera Manufacturers and Market Share

4.5.1 China Based Ultra-HD AI Perception Camera Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ultra-HD AI Perception Camera Production Value (2021-2026)

4.5.3 China Based Manufacturers Ultra-HD AI Perception Camera Production (2021-2026)

4.6 Rest of World Based Ultra-HD AI Perception Camera Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ultra-HD AI Perception Camera Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ultra-HD AI Perception Camera Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ultra-HD AI Perception Camera Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Ultra-HD AI Perception Camera Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cylinder Machine

5.2.2 Hemisphere

5.3 Market Segment by Type

5.3.1 World Ultra-HD AI Perception Camera Production by Type (2021-2032)

5.3.2 World Ultra-HD AI Perception Camera Production Value by Type (2021-2032)

5.3.3 World Ultra-HD AI Perception Camera Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY RESOLUTION

6.1 World Ultra-HD AI Perception Camera Market Size Overview by Resolution: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Resolution

6.2.1 4K and Above Ultra HD

6.2.2 2K-4K High Definition

6.2.3 1K-2K Basic High Definition

6.3 Market Segment by Resolution

6.3.1 World Ultra-HD AI Perception Camera Production by Resolution (2021-2032)

6.3.2 World Ultra-HD AI Perception Camera Production Value by Resolution (2021-2032)

6.3.3 World Ultra-HD AI Perception Camera Average Price by Resolution (2021-2032)

7 MARKET ANALYSIS BY INTERFACE

7.1 World Ultra-HD AI Perception Camera Market Size Overview by Interface: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Interface

7.2.1 Wired Interface

7.2.2 Wireless Interface

7.2.3 Hybrid Interface

7.3 Market Segment by Interface

7.3.1 World Ultra-HD AI Perception Camera Production by Interface (2021-2032)

7.3.2 World Ultra-HD AI Perception Camera Production Value by Interface (2021-2032)

7.3.3 World Ultra-HD AI Perception Camera Average Price by Interface (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Ultra-HD AI Perception Camera Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Transportation

8.2.2 Security

8.2.3 Construction

8.2.4 Industrial

8.2.5 Financial

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Ultra-HD AI Perception Camera Production by Application (2021-2032)

8.3.2 World Ultra-HD AI Perception Camera Production Value by Application

(2021-2032)

8.3.3 World Ultra-HD AI Perception Camera Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Axis Communications

9.1.1 Axis Communications Details

9.1.2 Axis Communications Major Business

9.1.3 Axis Communications Ultra-HD AI Perception Camera Product and Services

9.1.4 Axis Communications Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Axis Communications Recent Developments/Updates

9.1.6 Axis Communications Competitive Strengths & Weaknesses

9.2 Bosch Security Systems

9.2.1 Bosch Security Systems Details

9.2.2 Bosch Security Systems Major Business

9.2.3 Bosch Security Systems Ultra-HD AI Perception Camera Product and Services

9.2.4 Bosch Security Systems Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Bosch Security Systems Recent Developments/Updates

9.2.6 Bosch Security Systems Competitive Strengths & Weaknesses

9.3 Hanwha Techwin

9.3.1 Hanwha Techwin Details

9.3.2 Hanwha Techwin Major Business

9.3.3 Hanwha Techwin Ultra-HD AI Perception Camera Product and Services

9.3.4 Hanwha Techwin Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Hanwha Techwin Recent Developments/Updates

9.3.6 Hanwha Techwin Competitive Strengths & Weaknesses

9.4 Arlo Technologies

9.4.1 Arlo Technologies Details

9.4.2 Arlo Technologies Major Business

9.4.3 Arlo Technologies Ultra-HD AI Perception Camera Product and Services

9.4.4 Arlo Technologies Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Arlo Technologies Recent Developments/Updates

9.4.6 Arlo Technologies Competitive Strengths & Weaknesses

9.5 Cisco

9.5.1 Cisco Details

- 9.5.2 Cisco Major Business
- 9.5.3 Cisco Ultra-HD AI Perception Camera Product and Services
- 9.5.4 Cisco Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Cisco Recent Developments/Updates
- 9.5.6 Cisco Competitive Strengths & Weaknesses
- 9.6 Logitech
 - 9.6.1 Logitech Details
 - 9.6.2 Logitech Major Business
 - 9.6.3 Logitech Ultra-HD AI Perception Camera Product and Services
 - 9.6.4 Logitech Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Logitech Recent Developments/Updates
 - 9.6.6 Logitech Competitive Strengths & Weaknesses
- 9.7 EZVIZ
 - 9.7.1 EZVIZ Details
 - 9.7.2 EZVIZ Major Business
 - 9.7.3 EZVIZ Ultra-HD AI Perception Camera Product and Services
 - 9.7.4 EZVIZ Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 EZVIZ Recent Developments/Updates
 - 9.7.6 EZVIZ Competitive Strengths & Weaknesses
- 9.8 Hikvision
 - 9.8.1 Hikvision Details
 - 9.8.2 Hikvision Major Business
 - 9.8.3 Hikvision Ultra-HD AI Perception Camera Product and Services
 - 9.8.4 Hikvision Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Hikvision Recent Developments/Updates
 - 9.8.6 Hikvision Competitive Strengths & Weaknesses
- 9.9 MEGVII
 - 9.9.1 MEGVII Details
 - 9.9.2 MEGVII Major Business
 - 9.9.3 MEGVII Ultra-HD AI Perception Camera Product and Services
 - 9.9.4 MEGVII Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 MEGVII Recent Developments/Updates
 - 9.9.6 MEGVII Competitive Strengths & Weaknesses
- 9.10 GUANGZHOU BOSMA CORP

- 9.10.1 GUANGZHOU BOSMA CORP Details
- 9.10.2 GUANGZHOU BOSMA CORP Major Business
- 9.10.3 GUANGZHOU BOSMA CORP Ultra-HD AI Perception Camera Product and Services
- 9.10.4 GUANGZHOU BOSMA CORP Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 GUANGZHOU BOSMA CORP Recent Developments/Updates
- 9.10.6 GUANGZHOU BOSMA CORP Competitive Strengths & Weaknesses
- 9.11 ALCIDAE
 - 9.11.1 ALCIDAE Details
 - 9.11.2 ALCIDAE Major Business
 - 9.11.3 ALCIDAE Ultra-HD AI Perception Camera Product and Services
 - 9.11.4 ALCIDAE Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 ALCIDAE Recent Developments/Updates
 - 9.11.6 ALCIDAE Competitive Strengths & Weaknesses
- 9.12 SmartSens Technology
 - 9.12.1 SmartSens Technology Details
 - 9.12.2 SmartSens Technology Major Business
 - 9.12.3 SmartSens Technology Ultra-HD AI Perception Camera Product and Services
 - 9.12.4 SmartSens Technology Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 SmartSens Technology Recent Developments/Updates
 - 9.12.6 SmartSens Technology Competitive Strengths & Weaknesses
- 9.13 KINGSUN
 - 9.13.1 KINGSUN Details
 - 9.13.2 KINGSUN Major Business
 - 9.13.3 KINGSUN Ultra-HD AI Perception Camera Product and Services
 - 9.13.4 KINGSUN Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 KINGSUN Recent Developments/Updates
 - 9.13.6 KINGSUN Competitive Strengths & Weaknesses
- 9.14 Reolink
 - 9.14.1 Reolink Details
 - 9.14.2 Reolink Major Business
 - 9.14.3 Reolink Ultra-HD AI Perception Camera Product and Services
 - 9.14.4 Reolink Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Reolink Recent Developments/Updates

- 9.14.6 Reolink Competitive Strengths & Weaknesses
- 9.15 HUNAN SHARING
 - 9.15.1 HUNAN SHARING Details
 - 9.15.2 HUNAN SHARING Major Business
 - 9.15.3 HUNAN SHARING Ultra-HD AI Perception Camera Product and Services
 - 9.15.4 HUNAN SHARING Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 HUNAN SHARING Recent Developments/Updates
 - 9.15.6 HUNAN SHARING Competitive Strengths & Weaknesses
- 9.16 Maxvision
 - 9.16.1 Maxvision Details
 - 9.16.2 Maxvision Major Business
 - 9.16.3 Maxvision Ultra-HD AI Perception Camera Product and Services
 - 9.16.4 Maxvision Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Maxvision Recent Developments/Updates
 - 9.16.6 Maxvision Competitive Strengths & Weaknesses
- 9.17 Dahua Technology
 - 9.17.1 Dahua Technology Details
 - 9.17.2 Dahua Technology Major Business
 - 9.17.3 Dahua Technology Ultra-HD AI Perception Camera Product and Services
 - 9.17.4 Dahua Technology Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 Dahua Technology Recent Developments/Updates
 - 9.17.6 Dahua Technology Competitive Strengths & Weaknesses
- 9.18 CGU
 - 9.18.1 CGU Details
 - 9.18.2 CGU Major Business
 - 9.18.3 CGU Ultra-HD AI Perception Camera Product and Services
 - 9.18.4 CGU Ultra-HD AI Perception Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 CGU Recent Developments/Updates
 - 9.18.6 CGU Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Ultra-HD AI Perception Camera Industry Chain
- 10.2 Ultra-HD AI Perception Camera Upstream Analysis
 - 10.2.1 Ultra-HD AI Perception Camera Core Raw Materials

10.2.2 Main Manufacturers of Ultra-HD AI Perception Camera Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Ultra-HD AI Perception Camera Production Mode

10.6 Ultra-HD AI Perception Camera Procurement Model

10.7 Ultra-HD AI Perception Camera Industry Sales Model and Sales Channels

10.7.1 Ultra-HD AI Perception Camera Sales Model

10.7.2 Ultra-HD AI Perception 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 Ultra-HD AI Perception Camera Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

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

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

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

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

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

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

Table 12. Ultra-HD AI Perception Camera Major Market Trends

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

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

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

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

Table 17. Production Value Market Share of Key Ultra-HD AI Perception Camera Producers in 2025

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

Table 19. Production Market Share of Key Ultra-HD AI Perception Camera Producers in 2025

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

Table 21. Global Ultra-HD AI Perception Camera Company Evaluation Quadrant

Table 22. World Ultra-HD AI Perception Camera Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Ultra-HD AI Perception Camera Production Site of Key Manufacturer

Table 24. Ultra-HD AI Perception Camera Market: Company Product Type Footprint

Table 25. Ultra-HD AI Perception Camera Market: Company Product Application Footprint

Table 26. Ultra-HD AI Perception Camera Competitive Factors

Table 27. Ultra-HD AI Perception Camera New Entrant and Capacity Expansion Plans

Table 28. Ultra-HD AI Perception Camera Mergers & Acquisitions Activity

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

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

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

Table 32. United States Based Ultra-HD AI Perception Camera Manufacturers, Headquarters and Production Site (States, Country)

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

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

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

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

Table 37. China Based Ultra-HD AI Perception Camera Manufacturers, Headquarters and Production Site (Province, Country)

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

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

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

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

Table 42. Rest of World Based Ultra-HD AI Perception Camera Manufacturers, Headquarters and Production Site (State, Country)

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

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

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

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

Table 47. World Ultra-HD AI Perception Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Ultra-HD AI Perception Camera Production by Type (2021-2026) & (K Units)

Table 49. World Ultra-HD AI Perception Camera Production by Type (2027-2032) & (K Units)

Table 50. World Ultra-HD AI Perception Camera Production Value by Type (2021-2026) & (USD Million)

Table 51. World Ultra-HD AI Perception Camera Production Value by Type (2027-2032) & (USD Million)

Table 52. World Ultra-HD AI Perception Camera Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Ultra-HD AI Perception Camera Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Ultra-HD AI Perception Camera Production Value by Resolution, (USD Million), 2021 & 2025 & 2032

Table 55. World Ultra-HD AI Perception Camera Production by Resolution (2021-2026) & (K Units)

Table 56. World Ultra-HD AI Perception Camera Production by Resolution (2027-2032) & (K Units)

Table 57. World Ultra-HD AI Perception Camera Production Value by Resolution (2021-2026) & (USD Million)

Table 58. World Ultra-HD AI Perception Camera Production Value by Resolution (2027-2032) & (USD Million)

Table 59. World Ultra-HD AI Perception Camera Average Price by Resolution (2021-2026) & (US\$/Unit)

Table 60. World Ultra-HD AI Perception Camera Average Price by Resolution

(2027-2032) & (US\$/Unit)

Table 61. World Ultra-HD AI Perception Camera Production Value by Interface, (USD Million), 2021 & 2025 & 2032

Table 62. World Ultra-HD AI Perception Camera Production by Interface (2021-2026) & (K Units)

Table 63. World Ultra-HD AI Perception Camera Production by Interface (2027-2032) & (K Units)

Table 64. World Ultra-HD AI Perception Camera Production Value by Interface (2021-2026) & (USD Million)

Table 65. World Ultra-HD AI Perception Camera Production Value by Interface (2027-2032) & (USD Million)

Table 66. World Ultra-HD AI Perception Camera Average Price by Interface (2021-2026) & (US\$/Unit)

Table 67. World Ultra-HD AI Perception Camera Average Price by Interface (2027-2032) & (US\$/Unit)

Table 68. World Ultra-HD AI Perception Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ultra-HD AI Perception Camera Production by Application (2021-2026) & (K Units)

Table 70. World Ultra-HD AI Perception Camera Production by Application (2027-2032) & (K Units)

Table 71. World Ultra-HD AI Perception Camera Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ultra-HD AI Perception Camera Production Value by Application (2027-2032) & (USD Million)

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

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

Table 75. Axis Communications Basic Information, Manufacturing Base and Competitors

Table 76. Axis Communications Major Business

Table 77. Axis Communications Ultra-HD AI Perception Camera Product and Services

Table 78. Axis Communications Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Axis Communications Recent Developments/Updates

Table 80. Axis Communications Competitive Strengths & Weaknesses

Table 81. Bosch Security Systems Basic Information, Manufacturing Base and

Competitors

Table 82. Bosch Security Systems Major Business

Table 83. Bosch Security Systems Ultra-HD AI Perception Camera Product and Services

Table 84. Bosch Security Systems Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Bosch Security Systems Recent Developments/Updates

Table 86. Bosch Security Systems Competitive Strengths & Weaknesses

Table 87. Hanwha Techwin Basic Information, Manufacturing Base and Competitors

Table 88. Hanwha Techwin Major Business

Table 89. Hanwha Techwin Ultra-HD AI Perception Camera Product and Services

Table 90. Hanwha Techwin Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Hanwha Techwin Recent Developments/Updates

Table 92. Hanwha Techwin Competitive Strengths & Weaknesses

Table 93. Arlo Technologies Basic Information, Manufacturing Base and Competitors

Table 94. Arlo Technologies Major Business

Table 95. Arlo Technologies Ultra-HD AI Perception Camera Product and Services

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

Table 97. Arlo Technologies Recent Developments/Updates

Table 98. Arlo Technologies Competitive Strengths & Weaknesses

Table 99. Cisco Basic Information, Manufacturing Base and Competitors

Table 100. Cisco Major Business

Table 101. Cisco Ultra-HD AI Perception Camera Product and Services

Table 102. Cisco Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Cisco Recent Developments/Updates

Table 104. Cisco Competitive Strengths & Weaknesses

Table 105. Logitech Basic Information, Manufacturing Base and Competitors

Table 106. Logitech Major Business

Table 107. Logitech Ultra-HD AI Perception Camera Product and Services

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

Table 109. Logitech Recent Developments/Updates

Table 110. Logitech Competitive Strengths & Weaknesses

Table 111. EZVIZ Basic Information, Manufacturing Base and Competitors

Table 112. EZVIZ Major Business

Table 113. EZVIZ Ultra-HD AI Perception Camera Product and Services

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

Table 115. EZVIZ Recent Developments/Updates

Table 116. EZVIZ Competitive Strengths & Weaknesses

Table 117. Hikvision Basic Information, Manufacturing Base and Competitors

Table 118. Hikvision Major Business

Table 119. Hikvision Ultra-HD AI Perception Camera Product and Services

Table 120. Hikvision Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Hikvision Recent Developments/Updates

Table 122. Hikvision Competitive Strengths & Weaknesses

Table 123. MEGVII Basic Information, Manufacturing Base and Competitors

Table 124. MEGVII Major Business

Table 125. MEGVII Ultra-HD AI Perception Camera Product and Services

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

Table 127. MEGVII Recent Developments/Updates

Table 128. MEGVII Competitive Strengths & Weaknesses

Table 129. GUANGZHOU BOSMA CORP Basic Information, Manufacturing Base and Competitors

Table 130. GUANGZHOU BOSMA CORP Major Business

Table 131. GUANGZHOU BOSMA CORP Ultra-HD AI Perception Camera Product and Services

Table 132. GUANGZHOU BOSMA CORP Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. GUANGZHOU BOSMA CORP Recent Developments/Updates

Table 134. GUANGZHOU BOSMA CORP Competitive Strengths & Weaknesses

Table 135. ALCIDAE Basic Information, Manufacturing Base and Competitors

Table 136. ALCIDAE Major Business

Table 137. ALCIDAE Ultra-HD AI Perception Camera Product and Services

Table 138. ALCIDAE Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. ALCIDAE Recent Developments/Updates

Table 140. ALCIDAE Competitive Strengths & Weaknesses

Table 141. SmartSens Technology Basic Information, Manufacturing Base and Competitors

Table 142. SmartSens Technology Major Business

Table 143. SmartSens Technology Ultra-HD AI Perception Camera Product and Services

Table 144. SmartSens Technology Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. SmartSens Technology Recent Developments/Updates

Table 146. SmartSens Technology Competitive Strengths & Weaknesses

Table 147. KINGSUN Basic Information, Manufacturing Base and Competitors

Table 148. KINGSUN Major Business

Table 149. KINGSUN Ultra-HD AI Perception Camera Product and Services

Table 150. KINGSUN Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. KINGSUN Recent Developments/Updates

Table 152. KINGSUN Competitive Strengths & Weaknesses

Table 153. Reolink Basic Information, Manufacturing Base and Competitors

Table 154. Reolink Major Business

Table 155. Reolink Ultra-HD AI Perception Camera Product and Services

Table 156. Reolink Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Reolink Recent Developments/Updates

Table 158. Reolink Competitive Strengths & Weaknesses

Table 159. HUNAN SHARING Basic Information, Manufacturing Base and Competitors

Table 160. HUNAN SHARING Major Business

Table 161. HUNAN SHARING Ultra-HD AI Perception Camera Product and Services

Table 162. HUNAN SHARING Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. HUNAN SHARING Recent Developments/Updates

Table 164. HUNAN SHARING Competitive Strengths & Weaknesses

Table 165. Maxvision Basic Information, Manufacturing Base and Competitors

Table 166. Maxvision Major Business

Table 167. Maxvision Ultra-HD AI Perception Camera Product and Services

Table 168. Maxvision Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Maxvision Recent Developments/Updates

Table 170. Maxvision Competitive Strengths & Weaknesses

Table 171. Dahua Technology Basic Information, Manufacturing Base and Competitors

Table 172. Dahua Technology Major Business

Table 173. Dahua Technology Ultra-HD AI Perception Camera Product and Services

Table 174. Dahua Technology Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Dahua Technology Recent Developments/Updates

Table 176. Dahua Technology Competitive Strengths & Weaknesses

Table 177. CGU Basic Information, Manufacturing Base and Competitors

Table 178. CGU Major Business

Table 179. CGU Ultra-HD AI Perception Camera Product and Services

Table 180. CGU Ultra-HD AI Perception Camera Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. CGU Recent Developments/Updates

Table 182. CGU Competitive Strengths & Weaknesses

Table 183. Global Key Players of Ultra-HD AI Perception Camera Upstream (Raw Materials)

Table 184. Global Ultra-HD AI Perception Camera Typical Customers

Table 185. Ultra-HD AI Perception Camera Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Ultra-HD AI Perception Camera Picture

Figure 2. World Ultra-HD AI Perception Camera Production Value: 2021 & 2025 & 2032, (USD Million)

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

Figure 4. World Ultra-HD AI Perception Camera Production (2021-2032) & (K Units)

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

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

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

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

Figure 9. Europe Ultra-HD AI Perception Camera Production (2021-2032) & (K Units)

Figure 10. China Ultra-HD AI Perception Camera Production (2021-2032) & (K Units)

Figure 11. Japan Ultra-HD AI Perception Camera Production (2021-2032) & (K Units)

Figure 12. South Korea Ultra-HD AI Perception Camera Production (2021-2032) & (K Units)

Figure 13. Ultra-HD AI Perception Camera Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 16. World Ultra-HD AI Perception Camera Consumption Market Share by Region (2021-2032)

Figure 17. United States Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 18. China Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 19. Europe Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 20. Japan Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 21. South Korea Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 22. ASEAN Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 23. India Ultra-HD AI Perception Camera Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of Ultra-HD AI Perception Camera by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Ultra-HD AI Perception Camera Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Ultra-HD AI Perception Camera Markets in 2025

Figure 27. United States VS China: Ultra-HD AI Perception Camera Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Ultra-HD AI Perception Camera Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Ultra-HD AI Perception Camera Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Ultra-HD AI Perception Camera Production Market Share 2025

Figure 31. China Based Manufacturers Ultra-HD AI Perception Camera Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Ultra-HD AI Perception Camera Production Market Share 2025

Figure 33. World Ultra-HD AI Perception Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Ultra-HD AI Perception Camera Production Value Market Share by Type in 2025

Figure 35. Cylinder Machine

Figure 36. Hemisphere

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

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

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

Figure 40. World Ultra-HD AI Perception Camera Production Value by Resolution, (USD Million), 2021 & 2025 & 2032

Figure 41. World Ultra-HD AI Perception Camera Production Value Market Share by Resolution in 2025

Figure 42. 4K and Above Ultra HD

Figure 43. 2K-4K High Definition

Figure 44. 1K-2K Basic High Definition

Figure 45. World Ultra-HD AI Perception Camera Production Market Share by Resolution (2021-2032)

Figure 46. World Ultra-HD AI Perception Camera Production Value Market Share by Resolution (2021-2032)

Figure 47. World Ultra-HD AI Perception Camera Average Price by Resolution (2021-2032) & (US\$/Unit)

Figure 48. World Ultra-HD AI Perception Camera Production Value by Interface, (USD Million), 2021 & 2025 & 2032

Figure 49. World Ultra-HD AI Perception Camera Production Value Market Share by Interface in 2025

Figure 50. Wired Interface

Figure 51. Wireless Interface

Figure 52. Hybrid Interface

Figure 53. World Ultra-HD AI Perception Camera Production Market Share by Interface (2021-2032)

Figure 54. World Ultra-HD AI Perception Camera Production Value Market Share by Interface (2021-2032)

Figure 55. World Ultra-HD AI Perception Camera Average Price by Interface (2021-2032) & (US\$/Unit)

Figure 56. World Ultra-HD AI Perception Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Ultra-HD AI Perception Camera Production Value Market Share by Application in 2025

Figure 58. Transportation

Figure 59. Security

Figure 60. Construction

Figure 61. Industrial

Figure 62. Financial

Figure 63. Others

Figure 64. World Ultra-HD AI Perception Camera Production Market Share by Application (2021-2032)

Figure 65. World Ultra-HD AI Perception Camera Production Value Market Share by Application (2021-2032)

Figure 66. World Ultra-HD AI Perception Camera Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Ultra-HD AI Perception Camera Industry Chain

Figure 68. Ultra-HD AI Perception Camera Procurement Model

Figure 69. Ultra-HD AI Perception Camera Sales Model

Figure 70. Ultra-HD AI Perception Camera Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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