

Global X-ray CMOS Image Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global X-ray CMOS Image Sensor market size is expected to reach \$ 2142 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global X-ray CMOS Image Sensor production reached approximately 309 million Units, with an average global market price of around US\$ 4.6 per unit.

An X-ray CMOS Image Sensor is a semiconductor device that converts X-ray photons into digital signals for high - resolution, low - noise imaging, widely used in medical, industrial, security, and scientific fields, and is gradually replacing traditional amorphous silicon (aSi) and CCD detectors. It mainly uses two detection methods: indirect conversion (X - ray ? scintillator ? visible light ? CMOS photodiode) and direct conversion (X - ray ? semiconductor electron - hole pairs ? electrical signal), with pixel - level amplification and fast readout as its core advantages.

The CMOS image sensor industry chain presents a vertical hierarchical structure with clear division of labor, spanning from upstream core material and equipment supply, midstream sensor design, manufacturing and packaging, to downstream application terminal integration. The industry has strong technical barriers, high concentration of leading enterprises, and close collaborative links between upstream and downstream links. The upstream segment provides the essential materials, equipment and intellectual property (IP) required for CIS design and manufacturing, and is the foundation of the entire industry chain. The market is dominated by a small number of international enterprises. The midstream is the core value link of the industry chain, covering three key links: chip design, wafer fabrication, and packaging and testing. The industry is divided into two business models: IDM (Integrated Device Manufacturer) and Fabless + Foundry + OSAT. Downstream applications cover consumer electronics, automotive electronics, industrial detection, security monitoring, medical imaging and other fields. The demand of different scenarios drives the iteration of CIS technology,

and the B2B field has become the main growth engine in recent years. The iteration of downstream application demand (e.g., automotive high dynamic range, industrial global shutter) drives the R&D of midstream design and upstream material and equipment technologies, forming a positive feedback loop.

This report studies the global X-ray CMOS Image Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for X-ray CMOS Image Sensor 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 X-ray CMOS Image Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global X-ray CMOS Image Sensor total production and demand, 2021-2032, (Million Units)

Global X-ray CMOS Image Sensor total production value, 2021-2032, (USD Million)

Global X-ray CMOS Image Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global X-ray CMOS Image Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: X-ray CMOS Image Sensor domestic production, consumption, key domestic manufacturers and share

Global X-ray CMOS Image Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global X-ray CMOS Image Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global X-ray CMOS Image Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global X-ray CMOS Image Sensor 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 Hamamatsu Photonics, Teledyne e2v, Brigates Microelectronics, X-CMOS PHOTONICS, RWD Life Science, Tower Semiconductor, 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 X-ray CMOS Image Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (Million 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 X-ray CMOS Image Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global X-ray CMOS Image Sensor Market, Segmentation by Type:

Line Sensors

Area Sensors

Global X-ray CMOS Image Sensor Market, Segmentation by Detection Principle:

Indirect Conversion

Direct Conversion

Global X-ray CMOS Image Sensor Market, Segmentation by Architecture (Pixel & Readout Design):

Monolithic APS

Hybrid APS (HAPS)

sCMOS

SOI CMOS

Global X-ray CMOS Image Sensor Market, Segmentation by Application:

Medical

Industrial

Other

Companies Profiled:

Hamamatsu Photonics

Teledyne e2v

Brigates Microelectronics

X-CMOS PHOTONICS

RWD Life Science

Tower Semiconductor

Key Questions Answered:

1. How big is the global X-ray CMOS Image Sensor market?
2. What is the demand of the global X-ray CMOS Image Sensor market?
3. What is the year over year growth of the global X-ray CMOS Image Sensor market?
4. What is the production and production value of the global X-ray CMOS Image Sensor market?

5. Who are the key producers in the global X-ray CMOS Image Sensor market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

4.4.1 United States Based X-ray CMOS Image Sensor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers X-ray CMOS Image Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers X-ray CMOS Image Sensor Production (2021-2026)

4.5 China Based X-ray CMOS Image Sensor Manufacturers and Market Share

4.5.1 China Based X-ray CMOS Image Sensor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers X-ray CMOS Image Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers X-ray CMOS Image Sensor Production (2021-2026)

4.6 Rest of World Based X-ray CMOS Image Sensor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based X-ray CMOS Image Sensor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers X-ray CMOS Image Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers X-ray CMOS Image Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World X-ray CMOS Image Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Line Sensors

5.2.2 Area Sensors

5.3 Market Segment by Type

5.3.1 World X-ray CMOS Image Sensor Production by Type (2021-2032)

5.3.2 World X-ray CMOS Image Sensor Production Value by Type (2021-2032)

5.3.3 World X-ray CMOS Image Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY DETECTION PRINCIPLE

6.1 World X-ray CMOS Image Sensor Market Size Overview by Detection Principle: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Detection Principle

6.2.1 Indirect Conversion

6.2.2 Direct Conversion

6.3 Market Segment by Detection Principle

6.3.1 World X-ray CMOS Image Sensor Production by Detection Principle (2021-2032)

6.3.2 World X-ray CMOS Image Sensor Production Value by Detection Principle (2021-2032)

6.3.3 World X-ray CMOS Image Sensor Average Price by Detection Principle (2021-2032)

7 MARKET ANALYSIS BY ARCHITECTURE (PIXEL & READOUT DESIGN)

7.1 World X-ray CMOS Image Sensor Market Size Overview by Architecture (Pixel & Readout Design): 2021 VS 2025 VS 2032

7.2 Segment Introduction by Architecture (Pixel & Readout Design)

7.2.1 Monolithic APS

7.2.2 Hybrid APS (HAPS)

7.2.3 sCMOS

7.2.4 SOI CMOS

7.3 Market Segment by Architecture (Pixel & Readout Design)

7.3.1 World X-ray CMOS Image Sensor Production by Architecture (Pixel & Readout Design) (2021-2032)

7.3.2 World X-ray CMOS Image Sensor Production Value by Architecture (Pixel & Readout Design) (2021-2032)

7.3.3 World X-ray CMOS Image Sensor Average Price by Architecture (Pixel & Readout Design) (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World X-ray CMOS Image Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Medical

8.2.2 Industrial

8.2.3 Other

8.3 Market Segment by Application

8.3.1 World X-ray CMOS Image Sensor Production by Application (2021-2032)

8.3.2 World X-ray CMOS Image Sensor Production Value by Application (2021-2032)

8.3.3 World X-ray CMOS Image Sensor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Hamamatsu Photonics

9.1.1 Hamamatsu Photonics Details

9.1.2 Hamamatsu Photonics Major Business

9.1.3 Hamamatsu Photonics X-ray CMOS Image Sensor Product and Services

9.1.4 Hamamatsu Photonics X-ray CMOS Image Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Hamamatsu Photonics Recent Developments/Updates

9.1.6 Hamamatsu Photonics Competitive Strengths & Weaknesses

9.2 Teledyne e2v

9.2.1 Teledyne e2v Details

9.2.2 Teledyne e2v Major Business

9.2.3 Teledyne e2v X-ray CMOS Image Sensor Product and Services

9.2.4 Teledyne e2v X-ray CMOS Image Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Teledyne e2v Recent Developments/Updates

9.2.6 Teledyne e2v Competitive Strengths & Weaknesses

9.3 Brigates Microelectronics

9.3.1 Brigates Microelectronics Details

9.3.2 Brigates Microelectronics Major Business

9.3.3 Brigates Microelectronics X-ray CMOS Image Sensor Product and Services

9.3.4 Brigates Microelectronics X-ray CMOS Image Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Brigates Microelectronics Recent Developments/Updates

9.3.6 Brigates Microelectronics Competitive Strengths & Weaknesses

9.4 X-CMOS PHOTONICS

9.4.1 X-CMOS PHOTONICS Details

9.4.2 X-CMOS PHOTONICS Major Business

9.4.3 X-CMOS PHOTONICS X-ray CMOS Image Sensor Product and Services

9.4.4 X-CMOS PHOTONICS X-ray CMOS Image Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 X-CMOS PHOTONICS Recent Developments/Updates

9.4.6 X-CMOS PHOTONICS Competitive Strengths & Weaknesses

9.5 RWD Life Science

9.5.1 RWD Life Science Details

9.5.2 RWD Life Science Major Business

9.5.3 RWD Life Science X-ray CMOS Image Sensor Product and Services

9.5.4 RWD Life Science X-ray CMOS Image Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.5.5 RWD Life Science Recent Developments/Updates
- 9.5.6 RWD Life Science Competitive Strengths & Weaknesses
- 9.6 Tower Semiconductor
 - 9.6.1 Tower Semiconductor Details
 - 9.6.2 Tower Semiconductor Major Business
 - 9.6.3 Tower Semiconductor X-ray CMOS Image Sensor Product and Services
 - 9.6.4 Tower Semiconductor X-ray CMOS Image Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Tower Semiconductor Recent Developments/Updates
 - 9.6.6 Tower Semiconductor Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 X-ray CMOS Image Sensor Industry Chain
- 10.2 X-ray CMOS Image Sensor Upstream Analysis
 - 10.2.1 X-ray CMOS Image Sensor Core Raw Materials
 - 10.2.2 Main Manufacturers of X-ray CMOS Image Sensor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 X-ray CMOS Image Sensor Production Mode
- 10.6 X-ray CMOS Image Sensor Procurement Model
- 10.7 X-ray CMOS Image Sensor Industry Sales Model and Sales Channels
 - 10.7.1 X-ray CMOS Image Sensor Sales Model
 - 10.7.2 X-ray CMOS Image Sensor 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 X-ray CMOS Image Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World X-ray CMOS Image Sensor Production Value by Region (2021-2026) & (USD Million)

Table 3. World X-ray CMOS Image Sensor Production Value by Region (2027-2032) & (USD Million)

Table 4. World X-ray CMOS Image Sensor Production Value Market Share by Region (2021-2026)

Table 5. World X-ray CMOS Image Sensor Production Value Market Share by Region (2027-2032)

Table 6. World X-ray CMOS Image Sensor Production by Region (2021-2026) & (Million Units)

Table 7. World X-ray CMOS Image Sensor Production by Region (2027-2032) & (Million Units)

Table 8. World X-ray CMOS Image Sensor Production Market Share by Region (2021-2026)

Table 9. World X-ray CMOS Image Sensor Production Market Share by Region (2027-2032)

Table 10. World X-ray CMOS Image Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World X-ray CMOS Image Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. X-ray CMOS Image Sensor Major Market Trends

Table 13. World X-ray CMOS Image Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World X-ray CMOS Image Sensor Consumption by Region (2021-2026) & (Million Units)

Table 15. World X-ray CMOS Image Sensor Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World X-ray CMOS Image Sensor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key X-ray CMOS Image Sensor Producers in 2025

Table 18. World X-ray CMOS Image Sensor Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key X-ray CMOS Image Sensor Producers in 2025

Table 20. World X-ray CMOS Image Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global X-ray CMOS Image Sensor Company Evaluation Quadrant

Table 22. World X-ray CMOS Image Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and X-ray CMOS Image Sensor Production Site of Key Manufacturer

Table 24. X-ray CMOS Image Sensor Market: Company Product Type Footprint

Table 25. X-ray CMOS Image Sensor Market: Company Product Application Footprint

Table 26. X-ray CMOS Image Sensor Competitive Factors

Table 27. X-ray CMOS Image Sensor New Entrant and Capacity Expansion Plans

Table 28. X-ray CMOS Image Sensor Mergers & Acquisitions Activity

Table 29. United States VS China X-ray CMOS Image Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China X-ray CMOS Image Sensor Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China X-ray CMOS Image Sensor Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based X-ray CMOS Image Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers X-ray CMOS Image Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers X-ray CMOS Image Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers X-ray CMOS Image Sensor Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers X-ray CMOS Image Sensor Production Market Share (2021-2026)

Table 37. China Based X-ray CMOS Image Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers X-ray CMOS Image Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers X-ray CMOS Image Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers X-ray CMOS Image Sensor Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers X-ray CMOS Image Sensor Production Market

Share (2021-2026)

Table 42. Rest of World Based X-ray CMOS Image Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers X-ray CMOS Image Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers X-ray CMOS Image Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers X-ray CMOS Image Sensor Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers X-ray CMOS Image Sensor Production Market Share (2021-2026)

Table 47. World X-ray CMOS Image Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World X-ray CMOS Image Sensor Production by Type (2021-2026) & (Million Units)

Table 49. World X-ray CMOS Image Sensor Production by Type (2027-2032) & (Million Units)

Table 50. World X-ray CMOS Image Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World X-ray CMOS Image Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World X-ray CMOS Image Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World X-ray CMOS Image Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World X-ray CMOS Image Sensor Production Value by Detection Principle, (USD Million), 2021 & 2025 & 2032

Table 55. World X-ray CMOS Image Sensor Production by Detection Principle (2021-2026) & (Million Units)

Table 56. World X-ray CMOS Image Sensor Production by Detection Principle (2027-2032) & (Million Units)

Table 57. World X-ray CMOS Image Sensor Production Value by Detection Principle (2021-2026) & (USD Million)

Table 58. World X-ray CMOS Image Sensor Production Value by Detection Principle (2027-2032) & (USD Million)

Table 59. World X-ray CMOS Image Sensor Average Price by Detection Principle (2021-2026) & (US\$/Unit)

Table 60. World X-ray CMOS Image Sensor Average Price by Detection Principle (2027-2032) & (US\$/Unit)

Table 61. World X-ray CMOS Image Sensor Production Value by Architecture (Pixel & Readout Design), (USD Million), 2021 & 2025 & 2032

Table 62. World X-ray CMOS Image Sensor Production by Architecture (Pixel & Readout Design) (2021-2026) & (Million Units)

Table 63. World X-ray CMOS Image Sensor Production by Architecture (Pixel & Readout Design) (2027-2032) & (Million Units)

Table 64. World X-ray CMOS Image Sensor Production Value by Architecture (Pixel & Readout Design) (2021-2026) & (USD Million)

Table 65. World X-ray CMOS Image Sensor Production Value by Architecture (Pixel & Readout Design) (2027-2032) & (USD Million)

Table 66. World X-ray CMOS Image Sensor Average Price by Architecture (Pixel & Readout Design) (2021-2026) & (US\$/Unit)

Table 67. World X-ray CMOS Image Sensor Average Price by Architecture (Pixel & Readout Design) (2027-2032) & (US\$/Unit)

Table 68. World X-ray CMOS Image Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World X-ray CMOS Image Sensor Production by Application (2021-2026) & (Million Units)

Table 70. World X-ray CMOS Image Sensor Production by Application (2027-2032) & (Million Units)

Table 71. World X-ray CMOS Image Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World X-ray CMOS Image Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World X-ray CMOS Image Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World X-ray CMOS Image Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Hamamatsu Photonics Basic Information, Manufacturing Base and Competitors

Table 76. Hamamatsu Photonics Major Business

Table 77. Hamamatsu Photonics X-ray CMOS Image Sensor Product and Services

Table 78. Hamamatsu Photonics X-ray CMOS Image Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hamamatsu Photonics Recent Developments/Updates

Table 80. Hamamatsu Photonics Competitive Strengths & Weaknesses

Table 81. Teledyne e2v Basic Information, Manufacturing Base and Competitors

Table 82. Teledyne e2v Major Business

- Table 83. Teledyne e2v X-ray CMOS Image Sensor Product and Services
- Table 84. Teledyne e2v X-ray CMOS Image Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Teledyne e2v Recent Developments/Updates
- Table 86. Teledyne e2v Competitive Strengths & Weaknesses
- Table 87. Brigates Microelectronics Basic Information, Manufacturing Base and Competitors
- Table 88. Brigates Microelectronics Major Business
- Table 89. Brigates Microelectronics X-ray CMOS Image Sensor Product and Services
- Table 90. Brigates Microelectronics X-ray CMOS Image Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Brigates Microelectronics Recent Developments/Updates
- Table 92. Brigates Microelectronics Competitive Strengths & Weaknesses
- Table 93. X-CMOS PHOTONICS Basic Information, Manufacturing Base and Competitors
- Table 94. X-CMOS PHOTONICS Major Business
- Table 95. X-CMOS PHOTONICS X-ray CMOS Image Sensor Product and Services
- Table 96. X-CMOS PHOTONICS X-ray CMOS Image Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. X-CMOS PHOTONICS Recent Developments/Updates
- Table 98. X-CMOS PHOTONICS Competitive Strengths & Weaknesses
- Table 99. RWD Life Science Basic Information, Manufacturing Base and Competitors
- Table 100. RWD Life Science Major Business
- Table 101. RWD Life Science X-ray CMOS Image Sensor Product and Services
- Table 102. RWD Life Science X-ray CMOS Image Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. RWD Life Science Recent Developments/Updates
- Table 104. RWD Life Science Competitive Strengths & Weaknesses
- Table 105. Tower Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 106. Tower Semiconductor Major Business
- Table 107. Tower Semiconductor X-ray CMOS Image Sensor Product and Services
- Table 108. Tower Semiconductor X-ray CMOS Image Sensor Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Tower Semiconductor Recent Developments/Updates

Table 110. Tower Semiconductor Competitive Strengths & Weaknesses

Table 111. Global Key Players of X-ray CMOS Image Sensor Upstream (Raw Materials)

Table 112. Global X-ray CMOS Image Sensor Typical Customers

Table 113. X-ray CMOS Image Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. X-ray CMOS Image Sensor Picture

Figure 2. World X-ray CMOS Image Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World X-ray CMOS Image Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 5. World X-ray CMOS Image Sensor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World X-ray CMOS Image Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World X-ray CMOS Image Sensor Production Market Share by Region (2021-2032)

Figure 8. North America X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 9. Europe X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 10. China X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 11. Japan X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 12. South Korea X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 13. China Taiwan X-ray CMOS Image Sensor Production (2021-2032) & (Million Units)

Figure 14. X-ray CMOS Image Sensor Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 17. World X-ray CMOS Image Sensor Consumption Market Share by Region (2021-2032)

Figure 18. United States X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 19. China X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 20. Europe X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 21. Japan X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 22. South Korea X-ray CMOS Image Sensor Consumption (2021-2032) &

(Million Units)

Figure 23. ASEAN X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 24. India X-ray CMOS Image Sensor Consumption (2021-2032) & (Million Units)

Figure 25. Producer Shipments of X-ray CMOS Image Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for X-ray CMOS Image Sensor Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for X-ray CMOS Image Sensor Markets in 2025

Figure 28. United States VS China: X-ray CMOS Image Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: X-ray CMOS Image Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: X-ray CMOS Image Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers X-ray CMOS Image Sensor Production Market Share 2025

Figure 32. China Based Manufacturers X-ray CMOS Image Sensor Production Market Share 2025

Figure 33. Rest of World Based Manufacturers X-ray CMOS Image Sensor Production Market Share 2025

Figure 34. World X-ray CMOS Image Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World X-ray CMOS Image Sensor Production Value Market Share by Type in 2025

Figure 36. Line Sensors

Figure 37. Area Sensors

Figure 38. World X-ray CMOS Image Sensor Production Market Share by Type (2021-2032)

Figure 39. World X-ray CMOS Image Sensor Production Value Market Share by Type (2021-2032)

Figure 40. World X-ray CMOS Image Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World X-ray CMOS Image Sensor Production Value by Detection Principle, (USD Million), 2021 & 2025 & 2032

Figure 42. World X-ray CMOS Image Sensor Production Value Market Share by Detection Principle in 2025

Figure 43. Indirect Conversion

Figure 44. Direct Conversion

Figure 45. World X-ray CMOS Image Sensor Production Market Share by Detection Principle (2021-2032)

Figure 46. World X-ray CMOS Image Sensor Production Value Market Share by Detection Principle (2021-2032)

Figure 47. World X-ray CMOS Image Sensor Average Price by Detection Principle (2021-2032) & (US\$/Unit)

Figure 48. World X-ray CMOS Image Sensor Production Value by Architecture (Pixel & Readout Design), (USD Million), 2021 & 2025 & 2032

Figure 49. World X-ray CMOS Image Sensor Production Value Market Share by Architecture (Pixel & Readout Design) in 2025

Figure 50. Monolithic APS

Figure 51. Hybrid APS (HAPS)

Figure 52. sCMOS

Figure 53. SOI CMOS

Figure 54. World X-ray CMOS Image Sensor Production Market Share by Architecture (Pixel & Readout Design) (2021-2032)

Figure 55. World X-ray CMOS Image Sensor Production Value Market Share by Architecture (Pixel & Readout Design) (2021-2032)

Figure 56. World X-ray CMOS Image Sensor Average Price by Architecture (Pixel & Readout Design) (2021-2032) & (US\$/Unit)

Figure 57. World X-ray CMOS Image Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World X-ray CMOS Image Sensor Production Value Market Share by Application in 2025

Figure 59. Medical

Figure 60. Industrial

Figure 61. Other

Figure 62. World X-ray CMOS Image Sensor Production Market Share by Application (2021-2032)

Figure 63. World X-ray CMOS Image Sensor Production Value Market Share by Application (2021-2032)

Figure 64. World X-ray CMOS Image Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 65. X-ray CMOS Image Sensor Industry Chain

Figure 66. X-ray CMOS Image Sensor Procurement Model

Figure 67. X-ray CMOS Image Sensor Sales Model

Figure 68. X-ray CMOS Image Sensor Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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