

Global QWIP Detectors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global QWIP Detectors market size is expected to reach \$ 94.53 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

In 2025, global QWIP Detectors sales reached approximately 1,850 Units with an average global market price of around 31.16 K USD per Unit.

QWIP detectors, or Quantum Well Infrared Photodetectors, are photon-type infrared detectors based on multi-quantum-well structures in III-V compound semiconductors, most commonly GaAs/AlGaAs. Their operating principle relies on intersubband transitions: when infrared radiation with a matching photon energy reaches the quantum wells, confined electrons are excited and collected by the readout circuit, enabling imaging or spectral detection in the mid-wave, long-wave and very-long-wave infrared bands. In practical products, QWIPs are usually hybridized with ROICs and integrated into focal plane arrays, Dewar-cooler assemblies and optical modules. They are used in thermal infrared imaging, spaceborne and airborne remote sensing, astronomy, defense night vision, target identification, industrial thermal anomaly detection and scientific instruments. Their key strengths include wavelength tunability, high array uniformity, mature semiconductor processing and suitability for large-format FPAs, while their main constraints are cryogenic cooling requirements, absorption-efficiency limitations, dark-current control and relatively high system-level costs.

QWIP detectors should be defined as QWIP chips or focal plane arrays, together with necessary ROIC hybridization and cryogenic packaging components, rather than being equated with complete thermal cameras or remote sensing payloads. Because QWIPs are typically low-volume, high-reliability, highly customized products, their overall gross margin is estimated at around 35%-55%. Space, defense and scientific-grade FPAs or

IDCA modules may reach 45%–65%, reflecting long qualification cycles, strict yield requirements and demanding customer validation. When the scope extends downstream to standardized detector modules, camera cores or complete systems, the combined margin often falls to about 25%–45% because coolers, optics, electronics, calibration and system integration absorb a larger cost share. The upstream chain includes GaAs substrates, GaAs/AlGaAs epitaxy, MBE/MOCVD tools, lithography and etching, metal grating or metasurface coupling structures, ROIC design and wafer fabrication. Midstream activities include QWIP chip processing, FPA hybridization, Dewar packaging, cryocooler integration, screening and radiometric calibration. Downstream demand comes mainly from defense EO/IR systems, spaceborne remote sensing payloads, airborne thermal infrared spectrometers, astronomy instruments, industrial thermal anomaly monitoring and high-end research equipment.

Market Development Opportunities & Main Driving Factors

QWIP detector opportunities are not centered on consumer-grade infrared sensing, but on high-end applications that require high uniformity, large-format arrays, customizable spectral bands, and long-wave or very-long-wave infrared detection. Defense EO/IR systems, unmanned platforms, guidance payloads and surveillance systems are creating demand for high-resolution, low-noise and long-life infrared FPAs. Meanwhile, spaceborne remote sensing and environmental monitoring are moving from visual observation toward quantitative thermal infrared identification. NASA's Landsat and HyTES programs have already demonstrated the engineering value of QWIP technology in thermal infrared imaging, temperature retrieval and emissivity measurement. China's ecological-environment satellite plans also emphasize multispectral infrared satellites, thermal anomaly monitoring and high-sensitivity temperature detection, which should continue to support domestic high-reliability infrared detector, ROIC and packaging capabilities.

Market Challenges, Risks, & Restraints

The key challenge for QWIPs lies in balancing sufficient technical performance with acceptable system cost. Compared with MCT, type-II superlattice and next-generation HOT infrared detectors, QWIPs offer mature processing, strong uniformity and wavelength tunability, but absorption efficiency, cryogenic cooling, dark-current suppression and optical coupling structures remain major barriers to broader commercialization. In addition, downstream customers are concentrated in space, defense and scientific institutions, where procurement cycles are long, platform qualification is strict, export control is sensitive and order visibility can be uneven. For

new entrants, the real barrier is not simply fabricating a detector chip, but building a closed-loop capability across epitaxy, ROIC, hybridization, cryogenic packaging, reliability screening and system-level calibration.

Downstream Demand Trends

Future QWIP demand is expected to follow a structure led by defense and space programs, supported by scientific validation and selectively adopted in industrial applications. In the short to medium term, growth will mainly come from spaceborne thermal infrared remote sensing, environmental and carbon-emission monitoring, ocean, forest and fire-point observation, UAV and airborne infrared payloads, astronomy, and low-background scientific measurements. Over the longer term, market expansion will depend on progress in higher operating temperature, lower-power cooling, metasurface coupling, on-chip multispectral architectures and domestic ROIC ecosystems. As global investment in security, climate governance and intelligent remote sensing increases, QWIPs are unlikely to become mass-market consumer sensors, but they are well positioned to maintain steady growth in high-value, long-life and strongly validated professional infrared detection markets.

This report studies the global QWIP Detectors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for QWIP Detectors 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 QWIP Detectors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global QWIP Detectors total production and demand, 2021-2032, (Units)

Global QWIP Detectors total production value, 2021-2032, (USD Million)

Global QWIP Detectors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global QWIP Detectors consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: QWIP Detectors domestic production, consumption, key domestic manufacturers and share

Global QWIP Detectors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global QWIP Detectors production by Type, production, value, CAGR, 2021-2032,

(USD Million) & (Units)

Global QWIP Detectors production by Application, production, value, CAGR,
2021-2032, (USD Million) & (Units)

This report profiles key players in the global QWIP Detectors 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 IRnova AB, Lynred, QmagiQ, i3system, AIM Infrarot-Module, 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 QWIP Detectors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 QWIP Detectors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global QWIP Detectors Market, Segmentation by Type:

MWIR QWIP

LWIR QWIP

VLWIR QWIP

Others

Global QWIP Detectors Market, Segmentation by Array Format:

Small Format

VGA Class

SXGA Class

Others

Global QWIP Detectors Market, Segmentation by Application:

Defense & Security

Space & Airborne Remote Sensing

Industrial Thermography

Gas Imaging

Scientific Research

Others

Companies Profiled:

IRnova AB

Lynred

QmagiQ

i3system

AIM Infrarot-Module

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World QWIP Detectors Production Value by Manufacturer (2021-2026)

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

(2021-2026)

4.4.3 United States Based Manufacturers QWIP Detectors Production (2021-2026)

4.5 China Based QWIP Detectors Manufacturers and Market Share

4.5.1 China Based QWIP Detectors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers QWIP Detectors Production Value (2021-2026)

4.5.3 China Based Manufacturers QWIP Detectors Production (2021-2026)

4.6 Rest of World Based QWIP Detectors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based QWIP Detectors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers QWIP Detectors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers QWIP Detectors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World QWIP Detectors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 MWIR QWIP

5.2.2 LWIR QWIP

5.2.3 VLWIR QWIP

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World QWIP Detectors Production by Type (2021-2032)

5.3.2 World QWIP Detectors Production Value by Type (2021-2032)

5.3.3 World QWIP Detectors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ARRAY FORMAT

6.1 World QWIP Detectors Market Size Overview by Array Format: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Array Format

6.2.1 Small Format

6.2.2 VGA Class

6.2.3 SXGA Class

6.2.4 Others

6.3 Market Segment by Array Format

6.3.1 World QWIP Detectors Production by Array Format (2021-2032)

6.3.2 World QWIP Detectors Production Value by Array Format (2021-2032)

6.3.3 World QWIP Detectors Average Price by Array Format (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World QWIP Detectors Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Defense & Security

7.2.2 Space & Airborne Remote Sensing

7.2.3 Industrial Thermography

7.2.4 Gas Imaging

7.2.5 Scientific Research

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World QWIP Detectors Production by Application (2021-2032)

7.3.2 World QWIP Detectors Production Value by Application (2021-2032)

7.3.3 World QWIP Detectors Average Price by Application (2021-2032)

8 COMPANY PROFILES

8.1 IRnova AB

8.1.1 IRnova AB Details

8.1.2 IRnova AB Major Business

8.1.3 IRnova AB QWIP Detectors Product and Services

8.1.4 IRnova AB QWIP Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 IRnova AB Recent Developments/Updates

8.1.6 IRnova AB Competitive Strengths & Weaknesses

8.2 Lynred

8.2.1 Lynred Details

8.2.2 Lynred Major Business

8.2.3 Lynred QWIP Detectors Product and Services

8.2.4 Lynred QWIP Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.2.5 Lynred Recent Developments/Updates

8.2.6 Lynred Competitive Strengths & Weaknesses

8.3 QmagiQ

8.3.1 QmagiQ Details

8.3.2 QmagiQ Major Business

- 8.3.3 QmagiQ QWIP Detectors Product and Services
- 8.3.4 QmagiQ QWIP Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.3.5 QmagiQ Recent Developments/Updates
- 8.3.6 QmagiQ Competitive Strengths & Weaknesses
- 8.4 i3system
 - 8.4.1 i3system Details
 - 8.4.2 i3system Major Business
 - 8.4.3 i3system QWIP Detectors Product and Services
 - 8.4.4 i3system QWIP Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.4.5 i3system Recent Developments/Updates
 - 8.4.6 i3system Competitive Strengths & Weaknesses
- 8.5 AIM Infrarot-Module
 - 8.5.1 AIM Infrarot-Module Details
 - 8.5.2 AIM Infrarot-Module Major Business
 - 8.5.3 AIM Infrarot-Module QWIP Detectors Product and Services
 - 8.5.4 AIM Infrarot-Module QWIP Detectors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 AIM Infrarot-Module Recent Developments/Updates
 - 8.5.6 AIM Infrarot-Module Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

- 9.1 QWIP Detectors Industry Chain
- 9.2 QWIP Detectors Upstream Analysis
 - 9.2.1 QWIP Detectors Core Raw Materials
 - 9.2.2 Main Manufacturers of QWIP Detectors Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 QWIP Detectors Production Mode
- 9.6 QWIP Detectors Procurement Model
- 9.7 QWIP Detectors Industry Sales Model and Sales Channels
 - 9.7.1 QWIP Detectors Sales Model
 - 9.7.2 QWIP Detectors Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World QWIP Detectors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World QWIP Detectors Production Value by Region (2021-2026) & (USD Million)

Table 3. World QWIP Detectors Production Value by Region (2027-2032) & (USD Million)

Table 4. World QWIP Detectors Production Value Market Share by Region (2021-2026)

Table 5. World QWIP Detectors Production Value Market Share by Region (2027-2032)

Table 6. World QWIP Detectors Production by Region (2021-2026) & (Units)

Table 7. World QWIP Detectors Production by Region (2027-2032) & (Units)

Table 8. World QWIP Detectors Production Market Share by Region (2021-2026)

Table 9. World QWIP Detectors Production Market Share by Region (2027-2032)

Table 10. World QWIP Detectors Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World QWIP Detectors Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. QWIP Detectors Major Market Trends

Table 13. World QWIP Detectors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World QWIP Detectors Consumption by Region (2021-2026) & (Units)

Table 15. World QWIP Detectors Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World QWIP Detectors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key QWIP Detectors Producers in 2025

Table 18. World QWIP Detectors Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key QWIP Detectors Producers in 2025

Table 20. World QWIP Detectors Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global QWIP Detectors Company Evaluation Quadrant

Table 22. World QWIP Detectors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and QWIP Detectors Production Site of Key Manufacturer

Table 24. QWIP Detectors Market: Company Product Type Footprint

Table 25. QWIP Detectors Market: Company Product Application Footprint

Table 26. QWIP Detectors Competitive Factors

Table 27. QWIP Detectors New Entrant and Capacity Expansion Plans

Table 28. QWIP Detectors Mergers & Acquisitions Activity
Table 29. United States VS China QWIP Detectors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China QWIP Detectors Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China QWIP Detectors Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based QWIP Detectors Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers QWIP Detectors Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers QWIP Detectors Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers QWIP Detectors Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers QWIP Detectors Production Market Share (2021-2026)
Table 37. China Based QWIP Detectors Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers QWIP Detectors Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers QWIP Detectors Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers QWIP Detectors Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers QWIP Detectors Production Market Share (2021-2026)
Table 42. Rest of World Based QWIP Detectors Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers QWIP Detectors Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers QWIP Detectors Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers QWIP Detectors Production, (2021-2026) & (Units)
Table 46. Rest of World Based Manufacturers QWIP Detectors Production Market Share (2021-2026)
Table 47. World QWIP Detectors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World QWIP Detectors Production by Type (2021-2026) & (Units)
Table 49. World QWIP Detectors Production by Type (2027-2032) & (Units)
Table 50. World QWIP Detectors Production Value by Type (2021-2026) & (USD Million)
Table 51. World QWIP Detectors Production Value by Type (2027-2032) & (USD Million)
Table 52. World QWIP Detectors Average Price by Type (2021-2026) & (K US\$/Unit)
Table 53. World QWIP Detectors Average Price by Type (2027-2032) & (K US\$/Unit)
Table 54. World QWIP Detectors Production Value by Array Format, (USD Million), 2021 & 2025 & 2032
Table 55. World QWIP Detectors Production by Array Format (2021-2026) & (Units)
Table 56. World QWIP Detectors Production by Array Format (2027-2032) & (Units)
Table 57. World QWIP Detectors Production Value by Array Format (2021-2026) & (USD Million)
Table 58. World QWIP Detectors Production Value by Array Format (2027-2032) & (USD Million)
Table 59. World QWIP Detectors Average Price by Array Format (2021-2026) & (K US\$/Unit)
Table 60. World QWIP Detectors Average Price by Array Format (2027-2032) & (K US\$/Unit)
Table 61. World QWIP Detectors Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 62. World QWIP Detectors Production by Application (2021-2026) & (Units)
Table 63. World QWIP Detectors Production by Application (2027-2032) & (Units)
Table 64. World QWIP Detectors Production Value by Application (2021-2026) & (USD Million)
Table 65. World QWIP Detectors Production Value by Application (2027-2032) & (USD Million)
Table 66. World QWIP Detectors Average Price by Application (2021-2026) & (K US\$/Unit)
Table 67. World QWIP Detectors Average Price by Application (2027-2032) & (K US\$/Unit)
Table 68. IRnova AB Basic Information, Manufacturing Base and Competitors
Table 69. IRnova AB Major Business
Table 70. IRnova AB QWIP Detectors Product and Services
Table 71. IRnova AB QWIP Detectors Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 72. IRnova AB Recent Developments/Updates
Table 73. IRnova AB Competitive Strengths & Weaknesses

Table 74. Lynred Basic Information, Manufacturing Base and Competitors
Table 75. Lynred Major Business
Table 76. Lynred QWIP Detectors Product and Services
Table 77. Lynred QWIP Detectors Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 78. Lynred Recent Developments/Updates
Table 79. Lynred Competitive Strengths & Weaknesses
Table 80. QmagiQ Basic Information, Manufacturing Base and Competitors
Table 81. QmagiQ Major Business
Table 82. QmagiQ QWIP Detectors Product and Services
Table 83. QmagiQ QWIP Detectors Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 84. QmagiQ Recent Developments/Updates
Table 85. QmagiQ Competitive Strengths & Weaknesses
Table 86. i3system Basic Information, Manufacturing Base and Competitors
Table 87. i3system Major Business
Table 88. i3system QWIP Detectors Product and Services
Table 89. i3system QWIP Detectors Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 90. i3system Recent Developments/Updates
Table 91. i3system Competitive Strengths & Weaknesses
Table 92. AIM Infrarot-Module Basic Information, Manufacturing Base and Competitors
Table 93. AIM Infrarot-Module Major Business
Table 94. AIM Infrarot-Module QWIP Detectors Product and Services
Table 95. AIM Infrarot-Module QWIP Detectors Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 96. AIM Infrarot-Module Recent Developments/Updates
Table 97. AIM Infrarot-Module Competitive Strengths & Weaknesses
Table 98. Global Key Players of QWIP Detectors Upstream (Raw Materials)
Table 99. Global QWIP Detectors Typical Customers
Table 100. QWIP Detectors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. QWIP Detectors Picture

Figure 2. World QWIP Detectors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World QWIP Detectors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World QWIP Detectors Production (2021-2032) & (Units)

Figure 5. World QWIP Detectors Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World QWIP Detectors Production Value Market Share by Region (2021-2032)

Figure 7. World QWIP Detectors Production Market Share by Region (2021-2032)

Figure 8. North America QWIP Detectors Production (2021-2032) & (Units)

Figure 9. Europe QWIP Detectors Production (2021-2032) & (Units)

Figure 10. China QWIP Detectors Production (2021-2032) & (Units)

Figure 11. Japan QWIP Detectors Production (2021-2032) & (Units)

Figure 12. QWIP Detectors Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World QWIP Detectors Consumption (2021-2032) & (Units)

Figure 15. World QWIP Detectors Consumption Market Share by Region (2021-2032)

Figure 16. United States QWIP Detectors Consumption (2021-2032) & (Units)

Figure 17. China QWIP Detectors Consumption (2021-2032) & (Units)

Figure 18. Europe QWIP Detectors Consumption (2021-2032) & (Units)

Figure 19. Japan QWIP Detectors Consumption (2021-2032) & (Units)

Figure 20. South Korea QWIP Detectors Consumption (2021-2032) & (Units)

Figure 21. ASEAN QWIP Detectors Consumption (2021-2032) & (Units)

Figure 22. India QWIP Detectors Consumption (2021-2032) & (Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for QWIP Detectors Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for QWIP Detectors Markets in 2025

Figure 26. United States VS China: QWIP Detectors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: QWIP Detectors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: QWIP Detectors Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers QWIP Detectors Production Market Share 2025

Figure 30. China Based Manufacturers QWIP Detectors Production Market Share 2025

Figure 31. Rest of World Based Manufacturers QWIP Detectors Production Market Share 2025

Figure 32. World QWIP Detectors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World QWIP Detectors Production Value Market Share by Type in 2025

Figure 34. MWIR QWIP

Figure 35. LWIR QWIP

Figure 36. VLWIR QWIP

Figure 37. Others

Figure 38. World QWIP Detectors Production Market Share by Type (2021-2032)

Figure 39. World QWIP Detectors Production Value Market Share by Type (2021-2032)

Figure 40. World QWIP Detectors Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 41. World QWIP Detectors Production Value by Array Format, (USD Million), 2021 & 2025 & 2032

Figure 42. World QWIP Detectors Production Value Market Share by Array Format in 2025

Figure 43. Small Format

Figure 44. VGA Class

Figure 45. SXGA Class

Figure 46. Others

Figure 47. World QWIP Detectors Production Market Share by Array Format (2021-2032)

Figure 48. World QWIP Detectors Production Value Market Share by Array Format (2021-2032)

Figure 49. World QWIP Detectors Average Price by Array Format (2021-2032) & (K US\$/Unit)

Figure 50. World QWIP Detectors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 51. World QWIP Detectors Production Value Market Share by Application in 2025

Figure 52. Defense & Security

Figure 53. Space & Airborne Remote Sensing

Figure 54. Industrial Thermography

Figure 55. Gas Imaging

Figure 56. Scientific Research

Figure 57. Others

Figure 58. World QWIP Detectors Production Market Share by Application (2021-2032)

Figure 59. World QWIP Detectors Production Value Market Share by Application (2021-2032)

Figure 60. World QWIP Detectors Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 61. QWIP Detectors Industry Chain

Figure 62. QWIP Detectors Procurement Model

Figure 63. QWIP Detectors Sales Model

Figure 64. QWIP Detectors Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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