

Global Shortwave Cooled Infrared Detector Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Shortwave Cooled Infrared Detector market size was valued at US\$ 255 million in 2024 and is forecast to a readjusted size of USD 378 million by 2031 with a CAGR of 5.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The detector works in the short-wave infrared band, which can obtain more radiation energy from the target. In addition, the detection and imaging of near-room temperature targets by short-wave infrared is similar to the reflective imaging of visible light. On the one hand, it has the detail resolution capability that mid- and long-wave infrared detection lacks, and on the other hand, it has the ability to penetrate smoke and image, which is not available in visible light detection.

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

Key Features:

Global Shortwave Cooled Infrared Detector market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Shortwave Cooled Infrared Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Shortwave Cooled Infrared Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Shortwave Cooled Infrared Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Shortwave Cooled Infrared Detector
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Shortwave Cooled Infrared Detector market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Gaode Infrared, Dali Technology, FLIR Systems, Gaode Smart Sensing, InfiRay, SAT, Fluke, Testo, Hubei Jiuzhiyang Infrared System Co., Ltd., etc.

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

Market Segmentation

Shortwave Cooled Infrared Detector market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Mercury Cadmium Telluride Infrared Detector

Class ? Superlattice Infrared Detector

Quantum Well Infrared Detector

Quantum Dot Infrared Detector

Market segment by Application

Military

Security

Medical

Industrial

Others

Major players covered

Gaode Infrared

Dali Technology

FLIR Systems

Gaode Smart Sensing

InfiRay

SAT

Fluke

Testo

Hubei Jiuzhiyang Infrared System Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Shortwave Cooled Infrared Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Shortwave Cooled Infrared Detector, with price, sales quantity, revenue, and global market share of Shortwave Cooled Infrared Detector from 2020 to 2025.

Chapter 3, the Shortwave Cooled Infrared Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Shortwave Cooled Infrared Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Shortwave Cooled Infrared Detector market forecast, by regions, by Type,

and by Application, with sales and revenue, from 2026 to 2031.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Shortwave Cooled Infrared Detector.

Chapter 14 and 15, to describe Shortwave Cooled Infrared Detector sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Shortwave Cooled Infrared Detector Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Mercury Cadmium Telluride Infrared Detector

1.3.3 Class ? Superlattice Infrared Detector

1.3.4 Quantum Well Infrared Detector

1.3.5 Quantum Dot Infrared Detector

1.4 Market Analysis by Application

1.4.1 Overview: Global Shortwave Cooled Infrared Detector Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Military

1.4.3 Security

1.4.4 Medical

1.4.5 Industrial

1.4.6 Others

1.5 Global Shortwave Cooled Infrared Detector Market Size & Forecast

1.5.1 Global Shortwave Cooled Infrared Detector Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Shortwave Cooled Infrared Detector Sales Quantity (2020-2031)

1.5.3 Global Shortwave Cooled Infrared Detector Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 Gaode Infrared

2.1.1 Gaode Infrared Details

2.1.2 Gaode Infrared Major Business

2.1.3 Gaode Infrared Shortwave Cooled Infrared Detector Product and Services

2.1.4 Gaode Infrared Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 Gaode Infrared Recent Developments/Updates

2.2 Dali Technology

2.2.1 Dali Technology Details

2.2.2 Dali Technology Major Business

- 2.2.3 Dali Technology Shortwave Cooled Infrared Detector Product and Services
- 2.2.4 Dali Technology Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
- 2.2.5 Dali Technology Recent Developments/Updates
- 2.3 FLIR Systems
 - 2.3.1 FLIR Systems Details
 - 2.3.2 FLIR Systems Major Business
 - 2.3.3 FLIR Systems Shortwave Cooled Infrared Detector Product and Services
 - 2.3.4 FLIR Systems Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 FLIR Systems Recent Developments/Updates
- 2.4 Gaode Smart Sensing
 - 2.4.1 Gaode Smart Sensing Details
 - 2.4.2 Gaode Smart Sensing Major Business
 - 2.4.3 Gaode Smart Sensing Shortwave Cooled Infrared Detector Product and Services
 - 2.4.4 Gaode Smart Sensing Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Gaode Smart Sensing Recent Developments/Updates
- 2.5 InfiRay
 - 2.5.1 InfiRay Details
 - 2.5.2 InfiRay Major Business
 - 2.5.3 InfiRay Shortwave Cooled Infrared Detector Product and Services
 - 2.5.4 InfiRay Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 InfiRay Recent Developments/Updates
- 2.6 SAT
 - 2.6.1 SAT Details
 - 2.6.2 SAT Major Business
 - 2.6.3 SAT Shortwave Cooled Infrared Detector Product and Services
 - 2.6.4 SAT Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 SAT Recent Developments/Updates
- 2.7 Fluke
 - 2.7.1 Fluke Details
 - 2.7.2 Fluke Major Business
 - 2.7.3 Fluke Shortwave Cooled Infrared Detector Product and Services
 - 2.7.4 Fluke Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Fluke Recent Developments/Updates

2.8 Testo

2.8.1 Testo Details

2.8.2 Testo Major Business

2.8.3 Testo Shortwave Cooled Infrared Detector Product and Services

2.8.4 Testo Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Testo Recent Developments/Updates

2.9 Hubei Jiuzhiyang Infrared System Co., Ltd.

2.9.1 Hubei Jiuzhiyang Infrared System Co., Ltd. Details

2.9.2 Hubei Jiuzhiyang Infrared System Co., Ltd. Major Business

2.9.3 Hubei Jiuzhiyang Infrared System Co., Ltd. Shortwave Cooled Infrared Detector Product and Services

2.9.4 Hubei Jiuzhiyang Infrared System Co., Ltd. Shortwave Cooled Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Hubei Jiuzhiyang Infrared System Co., Ltd. Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: SHORTWAVE COOLED INFRARED DETECTOR BY MANUFACTURER

3.1 Global Shortwave Cooled Infrared Detector Sales Quantity by Manufacturer (2020-2025)

3.2 Global Shortwave Cooled Infrared Detector Revenue by Manufacturer (2020-2025)

3.3 Global Shortwave Cooled Infrared Detector Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Shortwave Cooled Infrared Detector by Manufacturer Revenue (\$MM) and Market Share (%): 2024

3.4.2 Top 3 Shortwave Cooled Infrared Detector Manufacturer Market Share in 2024

3.4.3 Top 6 Shortwave Cooled Infrared Detector Manufacturer Market Share in 2024

3.5 Shortwave Cooled Infrared Detector Market: Overall Company Footprint Analysis

3.5.1 Shortwave Cooled Infrared Detector Market: Region Footprint

3.5.2 Shortwave Cooled Infrared Detector Market: Company Product Type Footprint

3.5.3 Shortwave Cooled Infrared Detector Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Shortwave Cooled Infrared Detector Market Size by Region

4.1.1 Global Shortwave Cooled Infrared Detector Sales Quantity by Region
(2020-2031)

4.1.2 Global Shortwave Cooled Infrared Detector Consumption Value by Region
(2020-2031)

4.1.3 Global Shortwave Cooled Infrared Detector Average Price by Region
(2020-2031)

4.2 North America Shortwave Cooled Infrared Detector Consumption Value
(2020-2031)

4.3 Europe Shortwave Cooled Infrared Detector Consumption Value (2020-2031)

4.4 Asia-Pacific Shortwave Cooled Infrared Detector Consumption Value (2020-2031)

4.5 South America Shortwave Cooled Infrared Detector Consumption Value
(2020-2031)

4.6 Middle East & Africa Shortwave Cooled Infrared Detector Consumption Value
(2020-2031)

5 MARKET SEGMENT BY TYPE

5.1 Global Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2031)

5.2 Global Shortwave Cooled Infrared Detector Consumption Value by Type
(2020-2031)

5.3 Global Shortwave Cooled Infrared Detector Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Shortwave Cooled Infrared Detector Sales Quantity by Application
(2020-2031)

6.2 Global Shortwave Cooled Infrared Detector Consumption Value by Application
(2020-2031)

6.3 Global Shortwave Cooled Infrared Detector Average Price by Application
(2020-2031)

7 NORTH AMERICA

7.1 North America Shortwave Cooled Infrared Detector Sales Quantity by Type
(2020-2031)

7.2 North America Shortwave Cooled Infrared Detector Sales Quantity by Application
(2020-2031)

7.3 North America Shortwave Cooled Infrared Detector Market Size by Country

7.3.1 North America Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2031)

7.3.2 North America Shortwave Cooled Infrared Detector Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2031)

8.2 Europe Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2031)

8.3 Europe Shortwave Cooled Infrared Detector Market Size by Country

8.3.1 Europe Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2031)

8.3.2 Europe Shortwave Cooled Infrared Detector Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Shortwave Cooled Infrared Detector Market Size by Region

9.3.1 Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Shortwave Cooled Infrared Detector Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2031)

10.2 South America Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2031)

10.3 South America Shortwave Cooled Infrared Detector Market Size by Country

10.3.1 South America Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2031)

10.3.2 South America Shortwave Cooled Infrared Detector Consumption Value by Country (2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2031)

11.2 Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2031)

11.3 Middle East & Africa Shortwave Cooled Infrared Detector Market Size by Country

11.3.1 Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2031)

11.3.2 Middle East & Africa Shortwave Cooled Infrared Detector Consumption Value by Country (2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Shortwave Cooled Infrared Detector Market Drivers

12.2 Shortwave Cooled Infrared Detector Market Restraints

12.3 Shortwave Cooled Infrared Detector Trends Analysis

12.4 Porters Five Forces Analysis

- 12.4.1 Threat of New Entrants
- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Shortwave Cooled Infrared Detector and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Shortwave Cooled Infrared Detector
- 13.3 Shortwave Cooled Infrared Detector Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Shortwave Cooled Infrared Detector Typical Distributors
- 14.3 Shortwave Cooled Infrared Detector Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Shortwave Cooled Infrared Detector Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Shortwave Cooled Infrared Detector Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. Gaode Infrared Basic Information, Manufacturing Base and Competitors

Table 4. Gaode Infrared Major Business

Table 5. Gaode Infrared Shortwave Cooled Infrared Detector Product and Services

Table 6. Gaode Infrared Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. Gaode Infrared Recent Developments/Updates

Table 8. Dali Technology Basic Information, Manufacturing Base and Competitors

Table 9. Dali Technology Major Business

Table 10. Dali Technology Shortwave Cooled Infrared Detector Product and Services

Table 11. Dali Technology Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. Dali Technology Recent Developments/Updates

Table 13. FLIR Systems Basic Information, Manufacturing Base and Competitors

Table 14. FLIR Systems Major Business

Table 15. FLIR Systems Shortwave Cooled Infrared Detector Product and Services

Table 16. FLIR Systems Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. FLIR Systems Recent Developments/Updates

Table 18. Gaode Smart Sensing Basic Information, Manufacturing Base and Competitors

Table 19. Gaode Smart Sensing Major Business

Table 20. Gaode Smart Sensing Shortwave Cooled Infrared Detector Product and Services

Table 21. Gaode Smart Sensing Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Gaode Smart Sensing Recent Developments/Updates

Table 23. InfiRay Basic Information, Manufacturing Base and Competitors

Table 24. InfiRay Major Business

Table 25. InfiRay Shortwave Cooled Infrared Detector Product and Services

Table 26. InfiRay Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. InfiRay Recent Developments/Updates

Table 28. SAT Basic Information, Manufacturing Base and Competitors

Table 29. SAT Major Business

Table 30. SAT Shortwave Cooled Infrared Detector Product and Services

Table 31. SAT Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. SAT Recent Developments/Updates

Table 33. Fluke Basic Information, Manufacturing Base and Competitors

Table 34. Fluke Major Business

Table 35. Fluke Shortwave Cooled Infrared Detector Product and Services

Table 36. Fluke Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Fluke Recent Developments/Updates

Table 38. Testo Basic Information, Manufacturing Base and Competitors

Table 39. Testo Major Business

Table 40. Testo Shortwave Cooled Infrared Detector Product and Services

Table 41. Testo Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Testo Recent Developments/Updates

Table 43. Hubei Jiuzhiyang Infrared System Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 44. Hubei Jiuzhiyang Infrared System Co., Ltd. Major Business

Table 45. Hubei Jiuzhiyang Infrared System Co., Ltd. Shortwave Cooled Infrared Detector Product and Services

Table 46. Hubei Jiuzhiyang Infrared System Co., Ltd. Shortwave Cooled Infrared Detector Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Hubei Jiuzhiyang Infrared System Co., Ltd. Recent Developments/Updates

Table 48. Global Shortwave Cooled Infrared Detector Sales Quantity by Manufacturer (2020-2025) & (Units)

Table 49. Global Shortwave Cooled Infrared Detector Revenue by Manufacturer (2020-2025) & (USD Million)

Table 50. Global Shortwave Cooled Infrared Detector Average Price by Manufacturer (2020-2025) & (US\$/Unit)

Table 51. Market Position of Manufacturers in Shortwave Cooled Infrared Detector,

(Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024

Table 52. Head Office and Shortwave Cooled Infrared Detector Production Site of Key Manufacturer

Table 53. Shortwave Cooled Infrared Detector Market: Company Product Type Footprint

Table 54. Shortwave Cooled Infrared Detector Market: Company Product Application Footprint

Table 55. Shortwave Cooled Infrared Detector New Market Entrants and Barriers to Market Entry

Table 56. Shortwave Cooled Infrared Detector Mergers, Acquisition, Agreements, and Collaborations

Table 57. Global Shortwave Cooled Infrared Detector Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR

Table 58. Global Shortwave Cooled Infrared Detector Sales Quantity by Region (2020-2025) & (Units)

Table 59. Global Shortwave Cooled Infrared Detector Sales Quantity by Region (2026-2031) & (Units)

Table 60. Global Shortwave Cooled Infrared Detector Consumption Value by Region (2020-2025) & (USD Million)

Table 61. Global Shortwave Cooled Infrared Detector Consumption Value by Region (2026-2031) & (USD Million)

Table 62. Global Shortwave Cooled Infrared Detector Average Price by Region (2020-2025) & (US\$/Unit)

Table 63. Global Shortwave Cooled Infrared Detector Average Price by Region (2026-2031) & (US\$/Unit)

Table 64. Global Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2025) & (Units)

Table 65. Global Shortwave Cooled Infrared Detector Sales Quantity by Type (2026-2031) & (Units)

Table 66. Global Shortwave Cooled Infrared Detector Consumption Value by Type (2020-2025) & (USD Million)

Table 67. Global Shortwave Cooled Infrared Detector Consumption Value by Type (2026-2031) & (USD Million)

Table 68. Global Shortwave Cooled Infrared Detector Average Price by Type (2020-2025) & (US\$/Unit)

Table 69. Global Shortwave Cooled Infrared Detector Average Price by Type (2026-2031) & (US\$/Unit)

Table 70. Global Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2025) & (Units)

Table 71. Global Shortwave Cooled Infrared Detector Sales Quantity by Application (2026-2031) & (Units)

Table 72. Global Shortwave Cooled Infrared Detector Consumption Value by Application (2020-2025) & (USD Million)

Table 73. Global Shortwave Cooled Infrared Detector Consumption Value by Application (2026-2031) & (USD Million)

Table 74. Global Shortwave Cooled Infrared Detector Average Price by Application (2020-2025) & (US\$/Unit)

Table 75. Global Shortwave Cooled Infrared Detector Average Price by Application (2026-2031) & (US\$/Unit)

Table 76. North America Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2025) & (Units)

Table 77. North America Shortwave Cooled Infrared Detector Sales Quantity by Type (2026-2031) & (Units)

Table 78. North America Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2025) & (Units)

Table 79. North America Shortwave Cooled Infrared Detector Sales Quantity by Application (2026-2031) & (Units)

Table 80. North America Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2025) & (Units)

Table 81. North America Shortwave Cooled Infrared Detector Sales Quantity by Country (2026-2031) & (Units)

Table 82. North America Shortwave Cooled Infrared Detector Consumption Value by Country (2020-2025) & (USD Million)

Table 83. North America Shortwave Cooled Infrared Detector Consumption Value by Country (2026-2031) & (USD Million)

Table 84. Europe Shortwave Cooled Infrared Detector Sales Quantity by Type (2020-2025) & (Units)

Table 85. Europe Shortwave Cooled Infrared Detector Sales Quantity by Type (2026-2031) & (Units)

Table 86. Europe Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2025) & (Units)

Table 87. Europe Shortwave Cooled Infrared Detector Sales Quantity by Application (2026-2031) & (Units)

Table 88. Europe Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2025) & (Units)

Table 89. Europe Shortwave Cooled Infrared Detector Sales Quantity by Country (2026-2031) & (Units)

Table 90. Europe Shortwave Cooled Infrared Detector Consumption Value by Country

(2020-2025) & (USD Million)

Table 91. Europe Shortwave Cooled Infrared Detector Consumption Value by Country
(2026-2031) & (USD Million)

Table 92. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Type
(2020-2025) & (Units)

Table 93. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Type
(2026-2031) & (Units)

Table 94. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by
Application (2020-2025) & (Units)

Table 95. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by
Application (2026-2031) & (Units)

Table 96. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Region
(2020-2025) & (Units)

Table 97. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity by Region
(2026-2031) & (Units)

Table 98. Asia-Pacific Shortwave Cooled Infrared Detector Consumption Value by
Region (2020-2025) & (USD Million)

Table 99. Asia-Pacific Shortwave Cooled Infrared Detector Consumption Value by
Region (2026-2031) & (USD Million)

Table 100. South America Shortwave Cooled Infrared Detector Sales Quantity by Type
(2020-2025) & (Units)

Table 101. South America Shortwave Cooled Infrared Detector Sales Quantity by Type
(2026-2031) & (Units)

Table 102. South America Shortwave Cooled Infrared Detector Sales Quantity by
Application (2020-2025) & (Units)

Table 103. South America Shortwave Cooled Infrared Detector Sales Quantity by
Application (2026-2031) & (Units)

Table 104. South America Shortwave Cooled Infrared Detector Sales Quantity by
Country (2020-2025) & (Units)

Table 105. South America Shortwave Cooled Infrared Detector Sales Quantity by
Country (2026-2031) & (Units)

Table 106. South America Shortwave Cooled Infrared Detector Consumption Value by
Country (2020-2025) & (USD Million)

Table 107. South America Shortwave Cooled Infrared Detector Consumption Value by
Country (2026-2031) & (USD Million)

Table 108. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by
Type (2020-2025) & (Units)

Table 109. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by
Type (2026-2031) & (Units)

Table 110. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Application (2020-2025) & (Units)

Table 111. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Application (2026-2031) & (Units)

Table 112. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Country (2020-2025) & (Units)

Table 113. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity by Country (2026-2031) & (Units)

Table 114. Middle East & Africa Shortwave Cooled Infrared Detector Consumption Value by Country (2020-2025) & (USD Million)

Table 115. Middle East & Africa Shortwave Cooled Infrared Detector Consumption Value by Country (2026-2031) & (USD Million)

Table 116. Shortwave Cooled Infrared Detector Raw Material

Table 117. Key Manufacturers of Shortwave Cooled Infrared Detector Raw Materials

Table 118. Shortwave Cooled Infrared Detector Typical Distributors

Table 119. Shortwave Cooled Infrared Detector Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Shortwave Cooled Infrared Detector Picture
- Figure 2. Global Shortwave Cooled Infrared Detector Revenue by Type, (USD Million), 2020 & 2024 & 2031
- Figure 3. Global Shortwave Cooled Infrared Detector Revenue Market Share by Type in 2024
- Figure 4. Mercury Cadmium Telluride Infrared Detector Examples
- Figure 5. Class ? Superlattice Infrared Detector Examples
- Figure 6. Quantum Well Infrared Detector Examples
- Figure 7. Quantum Dot Infrared Detector Examples
- Figure 8. Global Shortwave Cooled Infrared Detector Consumption Value by Application, (USD Million), 2020 & 2024 & 2031
- Figure 9. Global Shortwave Cooled Infrared Detector Revenue Market Share by Application in 2024
- Figure 10. Military Examples
- Figure 11. Security Examples
- Figure 12. Medical Examples
- Figure 13. Industrial Examples
- Figure 14. Others Examples
- Figure 15. Global Shortwave Cooled Infrared Detector Consumption Value, (USD Million): 2020 & 2024 & 2031
- Figure 16. Global Shortwave Cooled Infrared Detector Consumption Value and Forecast (2020-2031) & (USD Million)
- Figure 17. Global Shortwave Cooled Infrared Detector Sales Quantity (2020-2031) & (Units)
- Figure 18. Global Shortwave Cooled Infrared Detector Price (2020-2031) & (US\$/Unit)
- Figure 19. Global Shortwave Cooled Infrared Detector Sales Quantity Market Share by Manufacturer in 2024
- Figure 20. Global Shortwave Cooled Infrared Detector Revenue Market Share by Manufacturer in 2024
- Figure 21. Producer Shipments of Shortwave Cooled Infrared Detector by Manufacturer Sales (\$MM) and Market Share (%): 2024
- Figure 22. Top 3 Shortwave Cooled Infrared Detector Manufacturer (Revenue) Market Share in 2024
- Figure 23. Top 6 Shortwave Cooled Infrared Detector Manufacturer (Revenue) Market Share in 2024

Figure 24. Global Shortwave Cooled Infrared Detector Sales Quantity Market Share by Region (2020-2031)

Figure 25. Global Shortwave Cooled Infrared Detector Consumption Value Market Share by Region (2020-2031)

Figure 26. North America Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 27. Europe Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 28. Asia-Pacific Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 29. South America Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 30. Middle East & Africa Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 31. Global Shortwave Cooled Infrared Detector Sales Quantity Market Share by Type (2020-2031)

Figure 32. Global Shortwave Cooled Infrared Detector Consumption Value Market Share by Type (2020-2031)

Figure 33. Global Shortwave Cooled Infrared Detector Average Price by Type (2020-2031) & (US\$/Unit)

Figure 34. Global Shortwave Cooled Infrared Detector Sales Quantity Market Share by Application (2020-2031)

Figure 35. Global Shortwave Cooled Infrared Detector Revenue Market Share by Application (2020-2031)

Figure 36. Global Shortwave Cooled Infrared Detector Average Price by Application (2020-2031) & (US\$/Unit)

Figure 37. North America Shortwave Cooled Infrared Detector Sales Quantity Market Share by Type (2020-2031)

Figure 38. North America Shortwave Cooled Infrared Detector Sales Quantity Market Share by Application (2020-2031)

Figure 39. North America Shortwave Cooled Infrared Detector Sales Quantity Market Share by Country (2020-2031)

Figure 40. North America Shortwave Cooled Infrared Detector Consumption Value Market Share by Country (2020-2031)

Figure 41. United States Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 42. Canada Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 43. Mexico Shortwave Cooled Infrared Detector Consumption Value (2020-2031)

& (USD Million)

Figure 44. Europe Shortwave Cooled Infrared Detector Sales Quantity Market Share by Type (2020-2031)

Figure 45. Europe Shortwave Cooled Infrared Detector Sales Quantity Market Share by Application (2020-2031)

Figure 46. Europe Shortwave Cooled Infrared Detector Sales Quantity Market Share by Country (2020-2031)

Figure 47. Europe Shortwave Cooled Infrared Detector Consumption Value Market Share by Country (2020-2031)

Figure 48. Germany Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 49. France Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 50. United Kingdom Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 51. Russia Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 52. Italy Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 53. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity Market Share by Type (2020-2031)

Figure 54. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity Market Share by Application (2020-2031)

Figure 55. Asia-Pacific Shortwave Cooled Infrared Detector Sales Quantity Market Share by Region (2020-2031)

Figure 56. Asia-Pacific Shortwave Cooled Infrared Detector Consumption Value Market Share by Region (2020-2031)

Figure 57. China Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 58. Japan Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 59. South Korea Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 60. India Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 61. Southeast Asia Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 62. Australia Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 63. South America Shortwave Cooled Infrared Detector Sales Quantity Market Share by Type (2020-2031)

Figure 64. South America Shortwave Cooled Infrared Detector Sales Quantity Market Share by Application (2020-2031)

Figure 65. South America Shortwave Cooled Infrared Detector Sales Quantity Market Share by Country (2020-2031)

Figure 66. South America Shortwave Cooled Infrared Detector Consumption Value Market Share by Country (2020-2031)

Figure 67. Brazil Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 68. Argentina Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 69. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity Market Share by Type (2020-2031)

Figure 70. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity Market Share by Application (2020-2031)

Figure 71. Middle East & Africa Shortwave Cooled Infrared Detector Sales Quantity Market Share by Country (2020-2031)

Figure 72. Middle East & Africa Shortwave Cooled Infrared Detector Consumption Value Market Share by Country (2020-2031)

Figure 73. Turkey Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 74. Egypt Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 75. Saudi Arabia Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 76. South Africa Shortwave Cooled Infrared Detector Consumption Value (2020-2031) & (USD Million)

Figure 77. Shortwave Cooled Infrared Detector Market Drivers

Figure 78. Shortwave Cooled Infrared Detector Market Restraints

Figure 79. Shortwave Cooled Infrared Detector Market Trends

Figure 80. Porters Five Forces Analysis

Figure 81. Manufacturing Cost Structure Analysis of Shortwave Cooled Infrared Detector in 2024

Figure 82. Manufacturing Process Analysis of Shortwave Cooled Infrared Detector

Figure 83. Shortwave Cooled Infrared Detector Industrial Chain

Figure 84. Sales Channel: Direct to End-User vs Distributors

Figure 85. Direct Channel Pros & Cons

Figure 86. Indirect Channel Pros & Cons

Figure 87. Methodology

Figure 88. Research Process and Data Source

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