

Global Multispectral Imaging Devices Market Research Report 2026(Status and Outlook)

<https://marketpublishers.com/r/GFC9348503A4EN.html>

Date: February 2026

Pages: 164

Price: US\$ 2,980.00 (Single User License)

ID: GFC9348503A4EN

Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Multispectral Imaging Devices competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Multispectral Imaging Devices are optical systems that capture image data at specific wavelength bands across the electromagnetic spectrum, typically ranging from ultraviolet (UV) through visible light to near-infrared (NIR). Unlike conventional cameras that capture images in red, green, and blue (RGB), these devices acquire multiple spectral bands—often between 4 to 20 bands—allowing detailed analysis of materials based on their spectral signatures. They are widely used in industries such as agriculture (crop health monitoring), medical diagnostics (tissue imaging), food inspection (contaminant detection), forensics, cultural heritage preservation, remote sensing, and defense. These devices may be built using filters (e.g., filter wheels, tunable filters), prism-based dispersion systems, or integrated sensor arrays that allow simultaneous or sequential capture of spectral bands. Multispectral Imaging Devices are defined by key parameters such as spectral range (typically 400–1000 nm for VIS-NIR, extendable to 2500 nm for SWIR), number of bands (3–30), spectral resolution (~5–20 nm), and bandwidth per band (10–50 nm). They feature spatial resolutions from 512–512 to over 4000–2000 pixels, with pixel pitches of 3–10 μm and fields of view adapted for drones, industrial lines, or lab settings. Frame rates range from 5 to 120 fps depending on acquisition method (snapshot, pushbroom, or filter-switching), while integration time and bit depth (up to 16-bit) define dynamic performance. Core sensor types include CMOS, CCD, and InGaAs, with interfaces such as USB 3.0, GigE Vision, and Camera Link. Devices vary in form—from compact handhelds under 500 g to rugged, fixed-mount industrial systems consuming 2–15 W—operating in temperatures from -10 °C to 50 °C.

The global Multispectral Imaging Devices market size was estimated at USD 1627.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 7.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Multispectral Imaging Devices market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Multispectral Imaging Devices market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Multispectral Imaging Devices market.

Global Multispectral Imaging Devices Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Headwall Photonics
Resonon
Raytheon Technologies
BaySpec
Corning
FLIR Systems
Spectral Devices
Telops
Senop
XIMEA
Specim
Raptor Photonics
Canon
Nippon Avionics
Teledyne DALSA
Photonfocus
Orient Holon Group
Tetracam

Market Segmentation (by Type)

Visible (~400?700 nm)
Near-Infrared (~700?1000 nm)
Short-Wave Infrared (~1000?2500 nm)

Market Segmentation (by Application)

Food & Beverage
Agricultural
Healthcare
Industrial
Environmental
Defense & Security
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Multispectral Imaging Devices Market

Overview of the regional outlook of the Multispectral Imaging Devices Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Multispectral Imaging Devices Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Multispectral Imaging Devices, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Multispectral Imaging Devices
- 1.2 Key Market Segments
 - 1.2.1 Multispectral Imaging Devices Segment by Type
 - 1.2.2 Multispectral Imaging Devices Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 MULTISPECTRAL IMAGING DEVICES MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Multispectral Imaging Devices Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Multispectral Imaging Devices Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 MULTISPECTRAL IMAGING DEVICES MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Multispectral Imaging Devices Product Life Cycle
- 3.3 Global Multispectral Imaging Devices Sales by Manufacturers (2020-2025)
- 3.4 Global Multispectral Imaging Devices Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Multispectral Imaging Devices Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Multispectral Imaging Devices Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Multispectral Imaging Devices Market Competitive Situation and Trends
 - 3.8.1 Multispectral Imaging Devices Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Multispectral Imaging Devices Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 MULTISPECTRAL IMAGING DEVICES INDUSTRY CHAIN ANALYSIS

4.1 Multispectral Imaging Devices Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF MULTISPECTRAL IMAGING DEVICES MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Multispectral Imaging Devices Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Multispectral Imaging Devices

Market

5.7 ESG Ratings of Leading Companies

6 MULTISPECTRAL IMAGING DEVICES MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Multispectral Imaging Devices Sales Market Share by Type (2020-2025)

6.3 Global Multispectral Imaging Devices Market Size by Type (2020-2025)

6.4 Global Multispectral Imaging Devices Price by Type (2020-2025)

7 MULTISPECTRAL IMAGING DEVICES MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Multispectral Imaging Devices Market Sales by Application (2020-2025)
- 7.3 Global Multispectral Imaging Devices Market Size (M USD) by Application (2020-2025)
- 7.4 Global Multispectral Imaging Devices Sales Growth Rate by Application (2020-2025)

8 MULTISPECTRAL IMAGING DEVICES MARKET SALES BY REGION

- 8.1 Global Multispectral Imaging Devices Sales by Region
 - 8.1.1 Global Multispectral Imaging Devices Sales by Region
 - 8.1.2 Global Multispectral Imaging Devices Sales Market Share by Region
- 8.2 Global Multispectral Imaging Devices Market Size by Region
 - 8.2.1 Global Multispectral Imaging Devices Market Size by Region
 - 8.2.2 Global Multispectral Imaging Devices Market Size by Region
- 8.3 North America
 - 8.3.1 North America Multispectral Imaging Devices Sales by Country
 - 8.3.2 North America Multispectral Imaging Devices Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Multispectral Imaging Devices Sales by Country
 - 8.4.2 Europe Multispectral Imaging Devices Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Multispectral Imaging Devices Sales by Region
 - 8.5.2 Asia Pacific Multispectral Imaging Devices Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview

- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Multispectral Imaging Devices Sales by Country
 - 8.6.2 South America Multispectral Imaging Devices Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Multispectral Imaging Devices Sales by Region
 - 8.7.2 Middle East and Africa Multispectral Imaging Devices Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 MULTISPECTRAL IMAGING DEVICES MARKET PRODUCTION BY REGION

- 9.1 Global Production of Multispectral Imaging Devices by Region(2020-2025)
- 9.2 Global Multispectral Imaging Devices Revenue Market Share by Region (2020-2025)
- 9.3 Global Multispectral Imaging Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Multispectral Imaging Devices Production
 - 9.4.1 North America Multispectral Imaging Devices Production Growth Rate (2020-2025)
 - 9.4.2 North America Multispectral Imaging Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Multispectral Imaging Devices Production
 - 9.5.1 Europe Multispectral Imaging Devices Production Growth Rate (2020-2025)
 - 9.5.2 Europe Multispectral Imaging Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Multispectral Imaging Devices Production (2020-2025)
 - 9.6.1 Japan Multispectral Imaging Devices Production Growth Rate (2020-2025)
 - 9.6.2 Japan Multispectral Imaging Devices Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Multispectral Imaging Devices Production (2020-2025)
 - 9.7.1 China Multispectral Imaging Devices Production Growth Rate (2020-2025)

9.7.2 China Multispectral Imaging Devices Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Headwall Photonics

10.1.1 Headwall Photonics Basic Information

10.1.2 Headwall Photonics Multispectral Imaging Devices Product Overview

10.1.3 Headwall Photonics Multispectral Imaging Devices Product Market

Performance

10.1.4 Headwall Photonics Business Overview

10.1.5 Headwall Photonics SWOT Analysis

10.1.6 Headwall Photonics Recent Developments

10.2 Resonon

10.2.1 Resonon Basic Information

10.2.2 Resonon Multispectral Imaging Devices Product Overview

10.2.3 Resonon Multispectral Imaging Devices Product Market Performance

10.2.4 Resonon Business Overview

10.2.5 Resonon SWOT Analysis

10.2.6 Resonon Recent Developments

10.3 Raytheon Technologies

10.3.1 Raytheon Technologies Basic Information

10.3.2 Raytheon Technologies Multispectral Imaging Devices Product Overview

10.3.3 Raytheon Technologies Multispectral Imaging Devices Product Market

Performance

10.3.4 Raytheon Technologies Business Overview

10.3.5 Raytheon Technologies SWOT Analysis

10.3.6 Raytheon Technologies Recent Developments

10.4 BaySpec

10.4.1 BaySpec Basic Information

10.4.2 BaySpec Multispectral Imaging Devices Product Overview

10.4.3 BaySpec Multispectral Imaging Devices Product Market Performance

10.4.4 BaySpec Business Overview

10.4.5 BaySpec Recent Developments

10.5 Corning

10.5.1 Corning Basic Information

10.5.2 Corning Multispectral Imaging Devices Product Overview

10.5.3 Corning Multispectral Imaging Devices Product Market Performance

10.5.4 Corning Business Overview

- 10.5.5 Corning Recent Developments
- 10.6 FLIR Systems
 - 10.6.1 FLIR Systems Basic Information
 - 10.6.2 FLIR Systems Multispectral Imaging Devices Product Overview
 - 10.6.3 FLIR Systems Multispectral Imaging Devices Product Market Performance
 - 10.6.4 FLIR Systems Business Overview
 - 10.6.5 FLIR Systems Recent Developments
- 10.7 Spectral Devices
 - 10.7.1 Spectral Devices Basic Information
 - 10.7.2 Spectral Devices Multispectral Imaging Devices Product Overview
 - 10.7.3 Spectral Devices Multispectral Imaging Devices Product Market Performance
 - 10.7.4 Spectral Devices Business Overview
 - 10.7.5 Spectral Devices Recent Developments
- 10.8 Telops
 - 10.8.1 Telops Basic Information
 - 10.8.2 Telops Multispectral Imaging Devices Product Overview
 - 10.8.3 Telops Multispectral Imaging Devices Product Market Performance
 - 10.8.4 Telops Business Overview
 - 10.8.5 Telops Recent Developments
- 10.9 Senop
 - 10.9.1 Senop Basic Information
 - 10.9.2 Senop Multispectral Imaging Devices Product Overview
 - 10.9.3 Senop Multispectral Imaging Devices Product Market Performance
 - 10.9.4 Senop Business Overview
 - 10.9.5 Senop Recent Developments
- 10.10 XIMEA
 - 10.10.1 XIMEA Basic Information
 - 10.10.2 XIMEA Multispectral Imaging Devices Product Overview
 - 10.10.3 XIMEA Multispectral Imaging Devices Product Market Performance
 - 10.10.4 XIMEA Business Overview
 - 10.10.5 XIMEA Recent Developments
- 10.11 Specim
 - 10.11.1 Specim Basic Information
 - 10.11.2 Specim Multispectral Imaging Devices Product Overview
 - 10.11.3 Specim Multispectral Imaging Devices Product Market Performance
 - 10.11.4 Specim Business Overview
 - 10.11.5 Specim Recent Developments
- 10.12 Raptor Photonics
 - 10.12.1 Raptor Photonics Basic Information

- 10.12.2 Raptor Photonics Multispectral Imaging Devices Product Overview
- 10.12.3 Raptor Photonics Multispectral Imaging Devices Product Market Performance
- 10.12.4 Raptor Photonics Business Overview
- 10.12.5 Raptor Photonics Recent Developments
- 10.13 Canon
 - 10.13.1 Canon Basic Information
 - 10.13.2 Canon Multispectral Imaging Devices Product Overview
 - 10.13.3 Canon Multispectral Imaging Devices Product Market Performance
 - 10.13.4 Canon Business Overview
 - 10.13.5 Canon Recent Developments
- 10.14 Nippon Avionics
 - 10.14.1 Nippon Avionics Basic Information
 - 10.14.2 Nippon Avionics Multispectral Imaging Devices Product Overview
 - 10.14.3 Nippon Avionics Multispectral Imaging Devices Product Market Performance
 - 10.14.4 Nippon Avionics Business Overview
 - 10.14.5 Nippon Avionics Recent Developments
- 10.15 Teledyne DALSA
 - 10.15.1 Teledyne DALSA Basic Information
 - 10.15.2 Teledyne DALSA Multispectral Imaging Devices Product Overview
 - 10.15.3 Teledyne DALSA Multispectral Imaging Devices Product Market Performance
 - 10.15.4 Teledyne DALSA Business Overview
 - 10.15.5 Teledyne DALSA Recent Developments
- 10.16 Photonfocus
 - 10.16.1 Photonfocus Basic Information
 - 10.16.2 Photonfocus Multispectral Imaging Devices Product Overview
 - 10.16.3 Photonfocus Multispectral Imaging Devices Product Market Performance
 - 10.16.4 Photonfocus Business Overview
 - 10.16.5 Photonfocus Recent Developments
- 10.17 Orient Holon Group
 - 10.17.1 Orient Holon Group Basic Information
 - 10.17.2 Orient Holon Group Multispectral Imaging Devices Product Overview
 - 10.17.3 Orient Holon Group Multispectral Imaging Devices Product Market Performance
 - 10.17.4 Orient Holon Group Business Overview
 - 10.17.5 Orient Holon Group Recent Developments
- 10.18 Tetracam
 - 10.18.1 Tetracam Basic Information
 - 10.18.2 Tetracam Multispectral Imaging Devices Product Overview
 - 10.18.3 Tetracam Multispectral Imaging Devices Product Market Performance

- 10.18.4 Tetracam Business Overview
- 10.18.5 Tetracam Recent Developments

11 MULTISPECTRAL IMAGING DEVICES MARKET FORECAST BY REGION

- 11.1 Global Multispectral Imaging Devices Market Size Forecast
- 11.2 Global Multispectral Imaging Devices Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Multispectral Imaging Devices Market Size Forecast by Country
 - 11.2.3 Asia Pacific Multispectral Imaging Devices Market Size Forecast by Region
 - 11.2.4 South America Multispectral Imaging Devices Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Multispectral Imaging Devices by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Multispectral Imaging Devices Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Multispectral Imaging Devices by Type (2026-2035)
 - 12.1.2 Global Multispectral Imaging Devices Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Multispectral Imaging Devices by Type (2026-2035)
- 12.2 Global Multispectral Imaging Devices Market Forecast by Application (2026-2035)
 - 12.2.1 Global Multispectral Imaging Devices Sales (K Units) Forecast by Application
 - 12.2.2 Global Multispectral Imaging Devices Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Multispectral Imaging Devices Market Size by Type (M USD)

Table 4. Global Multispectral Imaging Devices Market Size by Application

Table 5. Multispectral Imaging Devices Market Size Comparison by Region (M USD)

Table 6. Global Multispectral Imaging Devices Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Multispectral Imaging Devices Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Multispectral Imaging Devices Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Multispectral Imaging Devices Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Multispectral Imaging Devices as of 2025)

Table 11. Global Market Multispectral Imaging Devices Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Multispectral Imaging Devices Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Multispectral Imaging Devices Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Multispectral Imaging Devices Sales by Type (K Units)

Table 27. Global Multispectral Imaging Devices Market Size by Type (M USD)

Table 28. Global Multispectral Imaging Devices Sales (K Units) by Type (2020-2025)

Table 29. Global Multispectral Imaging Devices Sales Market Share by Type (2020-2025)

Table 30. Global Multispectral Imaging Devices Market Size (M USD) by Type (2020-2025)

Table 31. Global Multispectral Imaging Devices Market Share by Type (2020-2025)

Table 32. Global Multispectral Imaging Devices Price (USD/Unit) by Type (2020-2025)

Table 33. Global Multispectral Imaging Devices Sales (K Units) by Application

Table 34. Global Multispectral Imaging Devices Market Size by Application

Table 35. Global Multispectral Imaging Devices Sales by Application (2020-2025) & (K Units)

Table 36. Global Multispectral Imaging Devices Sales Market Share by Application (2020-2025)

Table 37. Global Multispectral Imaging Devices Market Size by Application (2020-2025) & (M USD)

Table 38. Global Multispectral Imaging Devices Market Share by Application (2020-2025)

Table 39. Global Multispectral Imaging Devices Sales Growth Rate by Application (2020-2025)

Table 40. Global Multispectral Imaging Devices Sales by Region (2020-2025) & (K Units)

Table 41. Global Multispectral Imaging Devices Sales Market Share by Region (2020-2025)

Table 42. Global Multispectral Imaging Devices Market Size by Region (2020-2025) & (M USD)

Table 43. Global Multispectral Imaging Devices Market Size by Region (2020-2025)

Table 44. North America Multispectral Imaging Devices Sales by Country (2020-2025) & (K Units)

Table 45. North America Multispectral Imaging Devices Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Multispectral Imaging Devices Sales by Country (2020-2025) & (K Units)

Table 47. Europe Multispectral Imaging Devices Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Multispectral Imaging Devices Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Multispectral Imaging Devices Market Size by Region (2020-2025) & (M USD)

Table 50. South America Multispectral Imaging Devices Sales by Country (2020-2025)

& (K Units)

Table 51. South America Multispectral Imaging Devices Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Multispectral Imaging Devices Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Multispectral Imaging Devices Market Size by Region (2020-2025) & (M USD)

Table 54. Global Multispectral Imaging Devices Production (K Units) by Region(2020-2025)

Table 55. Global Multispectral Imaging Devices Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Multispectral Imaging Devices Revenue Market Share by Region (2020-2025)

Table 57. Global Multispectral Imaging Devices Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Multispectral Imaging Devices Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Multispectral Imaging Devices Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Multispectral Imaging Devices Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Multispectral Imaging Devices Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 62. Headwall Photonics Basic Information

Table 63. Headwall Photonics Multispectral Imaging Devices Product Overview

Table 64. Headwall Photonics Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Headwall Photonics Business Overview

Table 66. Headwall Photonics SWOT Analysis

Table 67. Headwall Photonics Recent Developments

Table 68. Resonon Basic Information

Table 69. Resonon Multispectral Imaging Devices Product Overview

Table 70. Resonon Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Resonon Business Overview

Table 72. Resonon SWOT Analysis

Table 73. Resonon Recent Developments

Table 74. Raytheon Technologies Basic Information

Table 75. Raytheon Technologies Multispectral Imaging Devices Product Overview

Table 76. Raytheon Technologies Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Raytheon Technologies Business Overview

Table 78. Raytheon Technologies SWOT Analysis

Table 79. Raytheon Technologies Recent Developments

Table 80. BaySpec Basic Information

Table 81. BaySpec Multispectral Imaging Devices Product Overview

Table 82. BaySpec Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. BaySpec Business Overview

Table 84. BaySpec Recent Developments

Table 85. Corning Basic Information

Table 86. Corning Multispectral Imaging Devices Product Overview

Table 87. Corning Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Corning Business Overview

Table 89. Corning Recent Developments

Table 90. FLIR Systems Basic Information

Table 91. FLIR Systems Multispectral Imaging Devices Product Overview

Table 92. FLIR Systems Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. FLIR Systems Business Overview

Table 94. FLIR Systems Recent Developments

Table 95. Spectral Devices Basic Information

Table 96. Spectral Devices Multispectral Imaging Devices Product Overview

Table 97. Spectral Devices Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Spectral Devices Business Overview

Table 99. Spectral Devices Recent Developments

Table 100. Telops Basic Information

Table 101. Telops Multispectral Imaging Devices Product Overview

Table 102. Telops Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Telops Business Overview

Table 104. Telops Recent Developments

Table 105. Senop Basic Information

Table 106. Senop Multispectral Imaging Devices Product Overview

Table 107. Senop Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 108. Senop Business Overview
- Table 109. Senop Recent Developments
- Table 110. XIMEA Basic Information
- Table 111. XIMEA Multispectral Imaging Devices Product Overview
- Table 112. XIMEA Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. XIMEA Business Overview
- Table 114. XIMEA Recent Developments
- Table 115. Specim Basic Information
- Table 116. Specim Multispectral Imaging Devices Product Overview
- Table 117. Specim Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Specim Business Overview
- Table 119. Specim Recent Developments
- Table 120. Raptor Photonics Basic Information
- Table 121. Raptor Photonics Multispectral Imaging Devices Product Overview
- Table 122. Raptor Photonics Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Raptor Photonics Business Overview
- Table 124. Raptor Photonics Recent Developments
- Table 125. Canon Basic Information
- Table 126. Canon Multispectral Imaging Devices Product Overview
- Table 127. Canon Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Canon Business Overview
- Table 129. Canon Recent Developments
- Table 130. Nippon Avionics Basic Information
- Table 131. Nippon Avionics Multispectral Imaging Devices Product Overview
- Table 132. Nippon Avionics Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Nippon Avionics Business Overview
- Table 134. Nippon Avionics Recent Developments
- Table 135. Teledyne DALSA Basic Information
- Table 136. Teledyne DALSA Multispectral Imaging Devices Product Overview
- Table 137. Teledyne DALSA Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Teledyne DALSA Business Overview
- Table 139. Teledyne DALSA Recent Developments
- Table 140. Photonfocus Basic Information

- Table 141. Photonfocus Multispectral Imaging Devices Product Overview
- Table 142. Photonfocus Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 143. Photonfocus Business Overview
- Table 144. Photonfocus Recent Developments
- Table 145. Orient Holon Group Basic Information
- Table 146. Orient Holon Group Multispectral Imaging Devices Product Overview
- Table 147. Orient Holon Group Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 148. Orient Holon Group Business Overview
- Table 149. Orient Holon Group Recent Developments
- Table 150. Tetracam Basic Information
- Table 151. Tetracam Multispectral Imaging Devices Product Overview
- Table 152. Tetracam Multispectral Imaging Devices Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 153. Tetracam Business Overview
- Table 154. Tetracam Recent Developments
- Table 155. Global Multispectral Imaging Devices Sales Forecast by Region (2026-2035) & (K Units)
- Table 156. Global Multispectral Imaging Devices Market Size Forecast by Region (2026-2035) & (M USD)
- Table 157. North America Multispectral Imaging Devices Sales Forecast by Country (2026-2035) & (K Units)
- Table 158. North America Multispectral Imaging Devices Market Size Forecast by Country (2026-2035) & (M USD)
- Table 159. Europe Multispectral Imaging Devices Sales Forecast by Country (2026-2035) & (K Units)
- Table 160. Europe Multispectral Imaging Devices Market Size Forecast by Country (2026-2035) & (M USD)
- Table 161. Asia Pacific Multispectral Imaging Devices Sales Forecast by Region (2026-2035) & (K Units)
- Table 162. Asia Pacific Multispectral Imaging Devices Market Size Forecast by Region (2026-2035) & (M USD)
- Table 163. South America Multispectral Imaging Devices Sales Forecast by Country (2026-2035) & (K Units)
- Table 164. South America Multispectral Imaging Devices Market Size Forecast by Country (2026-2035) & (M USD)
- Table 165. Middle East and Africa Multispectral Imaging Devices Sales Forecast by Country (2026-2035) & (Units)

Table 166. Middle East and Africa Multispectral Imaging Devices Market Size Forecast by Country (2026-2035) & (M USD)

Table 167. Global Multispectral Imaging Devices Sales Forecast by Type (2026-2035) & (K Units)

Table 168. Global Multispectral Imaging Devices Market Size Forecast by Type (2026-2035) & (M USD)

Table 169. Global Multispectral Imaging Devices Price Forecast by Type (2026-2035) & (USD/Unit)

Table 170. Global Multispectral Imaging Devices Sales (K Units) Forecast by Application (2026-2035)

Table 171. Global Multispectral Imaging Devices Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Multispectral Imaging Devices
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Multispectral Imaging Devices Market Size (M USD), 2025-2035
- Figure 5. Global Multispectral Imaging Devices Market Size (M USD) (2020-2035)
- Figure 6. Global Multispectral Imaging Devices Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Multispectral Imaging Devices Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Multispectral Imaging Devices Product Life Cycle
- Figure 13. Multispectral Imaging Devices Sales Share by Manufacturers in 2025
- Figure 14. Global Multispectral Imaging Devices Revenue Share by Manufacturers in 2025
- Figure 15. Multispectral Imaging Devices Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Multispectral Imaging Devices Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Multispectral Imaging Devices Revenue in 2025
- Figure 18. Industry Chain Map of Multispectral Imaging Devices
- Figure 19. Global Multispectral Imaging Devices Market PEST Analysis
- Figure 20. Global Multispectral Imaging Devices Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Multispectral Imaging Devices Market Share by Type
- Figure 27. Sales Market Share of Multispectral Imaging Devices by Type (2020-2025)
- Figure 28. Sales Market Share of Multispectral Imaging Devices by Type in 2025
- Figure 29. Market Share of Multispectral Imaging Devices by Type (2020-2025)
- Figure 30. Market Share of Multispectral Imaging Devices by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Multispectral Imaging Devices Market Share by Application
- Figure 33. Global Multispectral Imaging Devices Sales Market Share by Application (2020-2025)
- Figure 34. Global Multispectral Imaging Devices Sales Market Share by Application in 2025
- Figure 35. Global Multispectral Imaging Devices Market Share by Application (2020-2025)
- Figure 36. Global Multispectral Imaging Devices Market Share by Application in 2025
- Figure 37. Global Multispectral Imaging Devices Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Multispectral Imaging Devices Sales Market Share by Region (2020-2025)
- Figure 39. Global Multispectral Imaging Devices Market Size by Region (2020-2025)
- Figure 40. North America Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Multispectral Imaging Devices Sales Market Share by Country in 2024
- Figure 43. North America Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Multispectral Imaging Devices Market Size by Country in 2024
- Figure 45. U.S. Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Multispectral Imaging Devices Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Multispectral Imaging Devices Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Multispectral Imaging Devices Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Multispectral Imaging Devices Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Multispectral Imaging Devices Sales Market Share by Country in 2024
- Figure 53. Europe Multispectral Imaging Devices Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 54. Europe Multispectral Imaging Devices Market Size by Country in 2024

Figure 55. Germany Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Multispectral Imaging Devices Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Multispectral Imaging Devices Sales Market Share by Region in 2024

Figure 67. Asia Pacific Multispectral Imaging Devices Market Size by Region in 2024

Figure 68. China Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Multispectral Imaging Devices Sales and Growth Rate (2020-2025) &

(K Units)

Figure 75. India Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Multispectral Imaging Devices Sales and Growth Rate (K Units)

Figure 79. South America Multispectral Imaging Devices Sales Market Share by Country in 2024

Figure 80. South America Multispectral Imaging Devices Market Size and Growth Rate (M USD)

Figure 81. South America Multispectral Imaging Devices Market Size by Country in 2024

Figure 82. Brazil Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Multispectral Imaging Devices Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Multispectral Imaging Devices Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Multispectral Imaging Devices Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Multispectral Imaging Devices Market Size by Region in 2024

Figure 92. Saudi Arabia Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Multispectral Imaging Devices Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Multispectral Imaging Devices Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Multispectral Imaging Devices Production Market Share by Region (2020-2025)

Figure 103. North America Multispectral Imaging Devices Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Multispectral Imaging Devices Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Multispectral Imaging Devices Production (K Units) Growth Rate (2020-2025)

Figure 106. China Multispectral Imaging Devices Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Multispectral Imaging Devices Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Multispectral Imaging Devices Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Multispectral Imaging Devices Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Multispectral Imaging Devices Market Share Forecast by Type (2026-2035)

Figure 111. Global Multispectral Imaging Devices Sales Forecast by Application (2026-2035)

Figure 112. Global Multispectral Imaging Devices Market Share Forecast by Application (2026-2035)

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