

Global NIR Hyperspectral Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NIR Hyperspectral Camera market size is expected to reach \$ 475 million by 2032, rising at a market growth of 15.2% CAGR during the forecast period (2026-2032).

Near-Infrared Hyperspectral Camera A precision optoelectronic device that integrates imaging and spectral analysis technologies, capable of simultaneously acquiring two-dimensional spatial images and continuous near-infrared spectral data (typically VNIR 400?1000 nm or SWIR 900?1700 nm) of a target, enabling ?image-spectrum integration? for qualitative and quantitative analysis of material composition, structure, and defects. It serves as a core sensing device in fields such as industrial sorting, precision agriculture, aerial remote sensing, and materials testing.

In 2025, global sales of near-infrared hyperspectral cameras reached 6,698 units, with an average price of \$25,450 per unit.

Development Trends

Chip-level integration, miniaturization, and cost reduction

Core: MEMS, metamaterials, and on-chip spectrometers replacing traditional gratings

Goals: 70% reduction in volume, 50% reduction in cost, integration into smartphones / drones / robots

High-Speed and Intelligent Capabilities

Hardware: Line scan speed exceeding 1000 fps, compatible with production lines

operating at 5 m/s or faster

Software: Built-in AI chips for real-time spectral unmixing, composition identification, and defect detection

Multispectral Fusion

Fusion of hyperspectral, visible light, thermal infrared, and LiDAR data

Applications: Autonomous driving, digital twins, comprehensive environmental monitoring

Accelerated Domestic Substitution

Breakthroughs in domestic production of core components (InGaAs detectors, gratings, optical lenses)

Policies: Strong support from New Infrastructure, Smart Agriculture, and Industrial Mother Machine policies

Impact on Upstream and Downstream Supply Chains

Upstream (Core Components)

Optical Components: Gratings, Prisms, Lenses, Filters (Suppliers: Changchun Institute of Optics, Fine Mechanics and Physics; Zeiss)

Detector Chips:

VNIR: CMOS/CCD (Sony, Changguang Chenxin)

SWIR: InGaAs (Episensor, U.S.; Zhongkexin, China)

Impact: Localization of detectors in China is key to reducing costs; currently, SWIR chips still rely on imports

This report studies the global NIR Hyperspectral Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NIR Hyperspectral Camera and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of NIR Hyperspectral Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NIR Hyperspectral Camera total production and demand, 2021-2032, (Units)

Global NIR Hyperspectral Camera total production value, 2021-2032, (USD Million)

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

Global NIR Hyperspectral Camera consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: NIR Hyperspectral Camera domestic production, consumption, key domestic manufacturers and share

Global NIR Hyperspectral Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global NIR Hyperspectral Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global NIR Hyperspectral Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global NIR Hyperspectral Camera market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Specim, Headwall Photonics, IMEC, Norsk Elektro Optikk A/S, Cubert, Corning?NovaSol?, Telops, JiangSu Dualix Spectral Imaging Technology, Surface Optics, Shenzhen Zhongda Ruihe Technology, 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 NIR Hyperspectral Camera 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 NIR Hyperspectral Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NIR Hyperspectral Camera Market, Segmentation by Type:

NIR Hyperspectral Camera

SWIR Hyperspectral Camera

Global NIR Hyperspectral Camera Market, Segmentation by Technology:

Push-broom

Snapshot / Area-scan

Global NIR Hyperspectral Camera Market, Segmentation by Sales Channels:

Direct Sales

Distribution

Global NIR Hyperspectral Camera Market, Segmentation by Application:

National Defense and Security

Environmental Monitoring and Mineralogy

Food and Agriculture

Life Sciences and Medical Diagnostics

Vegetation and Ecological Research

Environmental Protection and Recycling

Other

Companies Profiled:

Specim

Headwall Photonics

IMEC

Norsk Elektro Optikk A/S

Cubert

Corning?NovaSol?

Telops

JiangSu Dualix Spectral Imaging Technology

Surface Optics

Shenzhen Zhongda Ruihe Technology

Resonon

ITRES

Hangzhou Color Spectrum Technology

Brimrose

BaySpec

Spectra vista

TruTag

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World NIR Hyperspectral Camera Production Value by Manufacturer (2021-2026)

- 3.2 World NIR Hyperspectral Camera Production by Manufacturer (2021-2026)
- 3.3 World NIR Hyperspectral Camera Average Price by Manufacturer (2021-2026)
- 3.4 NIR Hyperspectral Camera Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global NIR Hyperspectral Camera Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for NIR Hyperspectral Camera in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for NIR Hyperspectral Camera in 2025
- 3.6 NIR Hyperspectral Camera Market: Overall Company Footprint Analysis
 - 3.6.1 NIR Hyperspectral Camera Market: Region Footprint
 - 3.6.2 NIR Hyperspectral Camera Market: Company Product Type Footprint
 - 3.6.3 NIR Hyperspectral Camera Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: NIR Hyperspectral Camera Production Value Comparison
 - 4.1.1 United States VS China: NIR Hyperspectral Camera Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: NIR Hyperspectral Camera Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: NIR Hyperspectral Camera Production Comparison
 - 4.2.1 United States VS China: NIR Hyperspectral Camera Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: NIR Hyperspectral Camera Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: NIR Hyperspectral Camera Consumption Comparison
 - 4.3.1 United States VS China: NIR Hyperspectral Camera Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: NIR Hyperspectral Camera Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based NIR Hyperspectral Camera Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based NIR Hyperspectral Camera Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers NIR Hyperspectral Camera Production Value (2021-2026)

4.4.3 United States Based Manufacturers NIR Hyperspectral Camera Production (2021-2026)

4.5 China Based NIR Hyperspectral Camera Manufacturers and Market Share

4.5.1 China Based NIR Hyperspectral Camera Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers NIR Hyperspectral Camera Production Value (2021-2026)

4.5.3 China Based Manufacturers NIR Hyperspectral Camera Production (2021-2026)

4.6 Rest of World Based NIR Hyperspectral Camera Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based NIR Hyperspectral Camera Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers NIR Hyperspectral Camera Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers NIR Hyperspectral Camera Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World NIR Hyperspectral Camera Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 NIR Hyperspectral Camera

5.2.2 SWIR Hyperspectral Camera

5.3 Market Segment by Type

5.3.1 World NIR Hyperspectral Camera Production by Type (2021-2032)

5.3.2 World NIR Hyperspectral Camera Production Value by Type (2021-2032)

5.3.3 World NIR Hyperspectral Camera Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TECHNOLOGY

6.1 World NIR Hyperspectral Camera Market Size Overview by Technology: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Technology

6.2.1 Push-broom

6.2.2 Snapshot / Area-scan

6.3 Market Segment by Technology

- 6.3.1 World NIR Hyperspectral Camera Production by Technology (2021-2032)
- 6.3.2 World NIR Hyperspectral Camera Production Value by Technology (2021-2032)
- 6.3.3 World NIR Hyperspectral Camera Average Price by Technology (2021-2032)

7 MARKET ANALYSIS BY SALES CHANNELS

- 7.1 World NIR Hyperspectral Camera Market Size Overview by Sales Channels: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Sales Channels
 - 7.2.1 Direct Sales
 - 7.2.2 Distribution
- 7.3 Market Segment by Sales Channels
 - 7.3.1 World NIR Hyperspectral Camera Production by Sales Channels (2021-2032)
 - 7.3.2 World NIR Hyperspectral Camera Production Value by Sales Channels (2021-2032)
 - 7.3.3 World NIR Hyperspectral Camera Average Price by Sales Channels (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World NIR Hyperspectral Camera Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 National Defense and Security
 - 8.2.2 Environmental Monitoring and Mineralogy
 - 8.2.3 Food and Agriculture
 - 8.2.4 Life Sciences and Medical Diagnostics
 - 8.2.5 Vegetation and Ecological Research
 - 8.2.6 Environmental Protection and Recycling
 - 8.2.7 Other
- 8.3 Market Segment by Application
 - 8.3.1 World NIR Hyperspectral Camera Production by Application (2021-2032)
 - 8.3.2 World NIR Hyperspectral Camera Production Value by Application (2021-2032)
 - 8.3.3 World NIR Hyperspectral Camera Average Price by Application (2021-2032)

9 COMPANY PROFILES

- 9.1 Specim
 - 9.1.1 Specim Details
 - 9.1.2 Specim Major Business

- 9.1.3 Specim NIR Hyperspectral Camera Product and Services
- 9.1.4 Specim NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Specim Recent Developments/Updates
- 9.1.6 Specim Competitive Strengths & Weaknesses
- 9.2 Headwall Photonics
 - 9.2.1 Headwall Photonics Details
 - 9.2.2 Headwall Photonics Major Business
 - 9.2.3 Headwall Photonics NIR Hyperspectral Camera Product and Services
 - 9.2.4 Headwall Photonics NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Headwall Photonics Recent Developments/Updates
 - 9.2.6 Headwall Photonics Competitive Strengths & Weaknesses
- 9.3 IMEC
 - 9.3.1 IMEC Details
 - 9.3.2 IMEC Major Business
 - 9.3.3 IMEC NIR Hyperspectral Camera Product and Services
 - 9.3.4 IMEC NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 IMEC Recent Developments/Updates
 - 9.3.6 IMEC Competitive Strengths & Weaknesses
- 9.4 Norsk Elektro Optikk A/S
 - 9.4.1 Norsk Elektro Optikk A/S Details
 - 9.4.2 Norsk Elektro Optikk A/S Major Business
 - 9.4.3 Norsk Elektro Optikk A/S NIR Hyperspectral Camera Product and Services
 - 9.4.4 Norsk Elektro Optikk A/S NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Norsk Elektro Optikk A/S Recent Developments/Updates
 - 9.4.6 Norsk Elektro Optikk A/S Competitive Strengths & Weaknesses
- 9.5 Cubert
 - 9.5.1 Cubert Details
 - 9.5.2 Cubert Major Business
 - 9.5.3 Cubert NIR Hyperspectral Camera Product and Services
 - 9.5.4 Cubert NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Cubert Recent Developments/Updates
 - 9.5.6 Cubert Competitive Strengths & Weaknesses
- 9.6 Corning?NovaSol?
 - 9.6.1 Corning?NovaSol? Details

- 9.6.2 Corning?NovaSol? Major Business
- 9.6.3 Corning?NovaSol? NIR Hyperspectral Camera Product and Services
- 9.6.4 Corning?NovaSol? NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Corning?NovaSol? Recent Developments/Updates
- 9.6.6 Corning?NovaSol? Competitive Strengths & Weaknesses
- 9.7 Telops
 - 9.7.1 Telops Details
 - 9.7.2 Telops Major Business
 - 9.7.3 Telops NIR Hyperspectral Camera Product and Services
 - 9.7.4 Telops NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Telops Recent Developments/Updates
 - 9.7.6 Telops Competitive Strengths & Weaknesses
- 9.8 JiangSu Dualix Spectral Imaging Technology
 - 9.8.1 JiangSu Dualix Spectral Imaging Technology Details
 - 9.8.2 JiangSu Dualix Spectral Imaging Technology Major Business
 - 9.8.3 JiangSu Dualix Spectral Imaging Technology NIR Hyperspectral Camera Product and Services
 - 9.8.4 JiangSu Dualix Spectral Imaging Technology NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 JiangSu Dualix Spectral Imaging Technology Recent Developments/Updates
 - 9.8.6 JiangSu Dualix Spectral Imaging Technology Competitive Strengths & Weaknesses
- 9.9 Surface Optics
 - 9.9.1 Surface Optics Details
 - 9.9.2 Surface Optics Major Business
 - 9.9.3 Surface Optics NIR Hyperspectral Camera Product and Services
 - 9.9.4 Surface Optics NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Surface Optics Recent Developments/Updates
 - 9.9.6 Surface Optics Competitive Strengths & Weaknesses
- 9.10 Shenzhen Zhongda Ruihe Technology
 - 9.10.1 Shenzhen Zhongda Ruihe Technology Details
 - 9.10.2 Shenzhen Zhongda Ruihe Technology Major Business
 - 9.10.3 Shenzhen Zhongda Ruihe Technology NIR Hyperspectral Camera Product and Services
 - 9.10.4 Shenzhen Zhongda Ruihe Technology NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 Shenzhen Zhongda Ruihe Technology Recent Developments/Updates
- 9.10.6 Shenzhen Zhongda Ruihe Technology Competitive Strengths & Weaknesses
- 9.11 Resonon
 - 9.11.1 Resonon Details
 - 9.11.2 Resonon Major Business
 - 9.11.3 Resonon NIR Hyperspectral Camera Product and Services
 - 9.11.4 Resonon NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Resonon Recent Developments/Updates
 - 9.11.6 Resonon Competitive Strengths & Weaknesses
- 9.12 ITRES
 - 9.12.1 ITRES Details
 - 9.12.2 ITRES Major Business
 - 9.12.3 ITRES NIR Hyperspectral Camera Product and Services
 - 9.12.4 ITRES NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 ITRES Recent Developments/Updates
 - 9.12.6 ITRES Competitive Strengths & Weaknesses
- 9.13 Hangzhou Color Spectrum Technology
 - 9.13.1 Hangzhou Color Spectrum Technology Details
 - 9.13.2 Hangzhou Color Spectrum Technology Major Business
 - 9.13.3 Hangzhou Color Spectrum Technology NIR Hyperspectral Camera Product and Services
 - 9.13.4 Hangzhou Color Spectrum Technology NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Hangzhou Color Spectrum Technology Recent Developments/Updates
 - 9.13.6 Hangzhou Color Spectrum Technology Competitive Strengths & Weaknesses
- 9.14 Brimrose
 - 9.14.1 Brimrose Details
 - 9.14.2 Brimrose Major Business
 - 9.14.3 Brimrose NIR Hyperspectral Camera Product and Services
 - 9.14.4 Brimrose NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Brimrose Recent Developments/Updates
 - 9.14.6 Brimrose Competitive Strengths & Weaknesses
- 9.15 BaySpec
 - 9.15.1 BaySpec Details
 - 9.15.2 BaySpec Major Business
 - 9.15.3 BaySpec NIR Hyperspectral Camera Product and Services

9.15.4 BaySpec NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 BaySpec Recent Developments/Updates

9.15.6 BaySpec Competitive Strengths & Weaknesses

9.16 Spectra vista

9.16.1 Spectra vista Details

9.16.2 Spectra vista Major Business

9.16.3 Spectra vista NIR Hyperspectral Camera Product and Services

9.16.4 Spectra vista NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Spectra vista Recent Developments/Updates

9.16.6 Spectra vista Competitive Strengths & Weaknesses

9.17 TruTag

9.17.1 TruTag Details

9.17.2 TruTag Major Business

9.17.3 TruTag NIR Hyperspectral Camera Product and Services

9.17.4 TruTag NIR Hyperspectral Camera Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 TruTag Recent Developments/Updates

9.17.6 TruTag Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 NIR Hyperspectral Camera Industry Chain

10.2 NIR Hyperspectral Camera Upstream Analysis

10.2.1 NIR Hyperspectral Camera Core Raw Materials

10.2.2 Main Manufacturers of NIR Hyperspectral Camera Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 NIR Hyperspectral Camera Production Mode

10.6 NIR Hyperspectral Camera Procurement Model

10.7 NIR Hyperspectral Camera Industry Sales Model and Sales Channels

10.7.1 NIR Hyperspectral Camera Sales Model

10.7.2 NIR Hyperspectral Camera Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World NIR Hyperspectral Camera Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World NIR Hyperspectral Camera Production Value by Region (2021-2026) & (USD Million)

Table 3. World NIR Hyperspectral Camera Production Value by Region (2027-2032) & (USD Million)

Table 4. World NIR Hyperspectral Camera Production Value Market Share by Region (2021-2026)

Table 5. World NIR Hyperspectral Camera Production Value Market Share by Region (2027-2032)

Table 6. World NIR Hyperspectral Camera Production by Region (2021-2026) & (Units)

Table 7. World NIR Hyperspectral Camera Production by Region (2027-2032) & (Units)

Table 8. World NIR Hyperspectral Camera Production Market Share by Region (2021-2026)

Table 9. World NIR Hyperspectral Camera Production Market Share by Region (2027-2032)

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

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

Table 12. NIR Hyperspectral Camera Major Market Trends

Table 13. World NIR Hyperspectral Camera Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World NIR Hyperspectral Camera Consumption by Region (2021-2026) & (Units)

Table 15. World NIR Hyperspectral Camera Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World NIR Hyperspectral Camera Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key NIR Hyperspectral Camera Producers in 2025

Table 18. World NIR Hyperspectral Camera Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key NIR Hyperspectral Camera Producers in 2025

Table 20. World NIR Hyperspectral Camera Average Price by Manufacturer (2021-2026) & (K US\$/Unit)
Table 21. Global NIR Hyperspectral Camera Company Evaluation Quadrant
Table 22. World NIR Hyperspectral Camera Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and NIR Hyperspectral Camera Production Site of Key Manufacturer
Table 24. NIR Hyperspectral Camera Market: Company Product Type Footprint
Table 25. NIR Hyperspectral Camera Market: Company Product Application Footprint
Table 26. NIR Hyperspectral Camera Competitive Factors
Table 27. NIR Hyperspectral Camera New Entrant and Capacity Expansion Plans
Table 28. NIR Hyperspectral Camera Mergers & Acquisitions Activity
Table 29. United States VS China NIR Hyperspectral Camera Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China NIR Hyperspectral Camera Production Comparison, (2021 & 2025 & 2032) & (Units)
Table 31. United States VS China NIR Hyperspectral Camera Consumption Comparison, (2021 & 2025 & 2032) & (Units)
Table 32. United States Based NIR Hyperspectral Camera Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers NIR Hyperspectral Camera Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers NIR Hyperspectral Camera Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers NIR Hyperspectral Camera Production (2021-2026) & (Units)
Table 36. United States Based Manufacturers NIR Hyperspectral Camera Production Market Share (2021-2026)
Table 37. China Based NIR Hyperspectral Camera Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers NIR Hyperspectral Camera Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers NIR Hyperspectral Camera Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers NIR Hyperspectral Camera Production, (2021-2026) & (Units)
Table 41. China Based Manufacturers NIR Hyperspectral Camera Production Market Share (2021-2026)
Table 42. Rest of World Based NIR Hyperspectral Camera Manufacturers,

Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers NIR Hyperspectral Camera Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers NIR Hyperspectral Camera Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers NIR Hyperspectral Camera Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers NIR Hyperspectral Camera Production Market Share (2021-2026)

Table 47. World NIR Hyperspectral Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World NIR Hyperspectral Camera Production by Type (2021-2026) & (Units)

Table 49. World NIR Hyperspectral Camera Production by Type (2027-2032) & (Units)

Table 50. World NIR Hyperspectral Camera Production Value by Type (2021-2026) & (USD Million)

Table 51. World NIR Hyperspectral Camera Production Value by Type (2027-2032) & (USD Million)

Table 52. World NIR Hyperspectral Camera Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World NIR Hyperspectral Camera Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World NIR Hyperspectral Camera Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Table 55. World NIR Hyperspectral Camera Production by Technology (2021-2026) & (Units)

Table 56. World NIR Hyperspectral Camera Production by Technology (2027-2032) & (Units)

Table 57. World NIR Hyperspectral Camera Production Value by Technology (2021-2026) & (USD Million)

Table 58. World NIR Hyperspectral Camera Production Value by Technology (2027-2032) & (USD Million)

Table 59. World NIR Hyperspectral Camera Average Price by Technology (2021-2026) & (K US\$/Unit)

Table 60. World NIR Hyperspectral Camera Average Price by Technology (2027-2032) & (K US\$/Unit)

Table 61. World NIR Hyperspectral Camera Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Table 62. World NIR Hyperspectral Camera Production by Sales Channels (2021-2026) & (Units)

Table 63. World NIR Hyperspectral Camera Production by Sales Channels (2027-2032) & (Units)

Table 64. World NIR Hyperspectral Camera Production Value by Sales Channels (2021-2026) & (USD Million)

Table 65. World NIR Hyperspectral Camera Production Value by Sales Channels (2027-2032) & (USD Million)

Table 66. World NIR Hyperspectral Camera Average Price by Sales Channels (2021-2026) & (K US\$/Unit)

Table 67. World NIR Hyperspectral Camera Average Price by Sales Channels (2027-2032) & (K US\$/Unit)

Table 68. World NIR Hyperspectral Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World NIR Hyperspectral Camera Production by Application (2021-2026) & (Units)

Table 70. World NIR Hyperspectral Camera Production by Application (2027-2032) & (Units)

Table 71. World NIR Hyperspectral Camera Production Value by Application (2021-2026) & (USD Million)

Table 72. World NIR Hyperspectral Camera Production Value by Application (2027-2032) & (USD Million)

Table 73. World NIR Hyperspectral Camera Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World NIR Hyperspectral Camera Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Specim Basic Information, Manufacturing Base and Competitors

Table 76. Specim Major Business

Table 77. Specim NIR Hyperspectral Camera Product and Services

Table 78. Specim NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Specim Recent Developments/Updates

Table 80. Specim Competitive Strengths & Weaknesses

Table 81. Headwall Photonics Basic Information, Manufacturing Base and Competitors

Table 82. Headwall Photonics Major Business

Table 83. Headwall Photonics NIR Hyperspectral Camera Product and Services

Table 84. Headwall Photonics NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Headwall Photonics Recent Developments/Updates

Table 86. Headwall Photonics Competitive Strengths & Weaknesses

Table 87. IMEC Basic Information, Manufacturing Base and Competitors
Table 88. IMEC Major Business
Table 89. IMEC NIR Hyperspectral Camera Product and Services
Table 90. IMEC NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. IMEC Recent Developments/Updates
Table 92. IMEC Competitive Strengths & Weaknesses
Table 93. Norsk Elektro Optikk A/S Basic Information, Manufacturing Base and Competitors
Table 94. Norsk Elektro Optikk A/S Major Business
Table 95. Norsk Elektro Optikk A/S NIR Hyperspectral Camera Product and Services
Table 96. Norsk Elektro Optikk A/S NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Norsk Elektro Optikk A/S Recent Developments/Updates
Table 98. Norsk Elektro Optikk A/S Competitive Strengths & Weaknesses
Table 99. Cubert Basic Information, Manufacturing Base and Competitors
Table 100. Cubert Major Business
Table 101. Cubert NIR Hyperspectral Camera Product and Services
Table 102. Cubert NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Cubert Recent Developments/Updates
Table 104. Cubert Competitive Strengths & Weaknesses
Table 105. Corning?NovaSol? Basic Information, Manufacturing Base and Competitors
Table 106. Corning?NovaSol? Major Business
Table 107. Corning?NovaSol? NIR Hyperspectral Camera Product and Services
Table 108. Corning?NovaSol? NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Corning?NovaSol? Recent Developments/Updates
Table 110. Corning?NovaSol? Competitive Strengths & Weaknesses
Table 111. Telops Basic Information, Manufacturing Base and Competitors
Table 112. Telops Major Business
Table 113. Telops NIR Hyperspectral Camera Product and Services
Table 114. Telops NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Telops Recent Developments/Updates
Table 116. Telops Competitive Strengths & Weaknesses
Table 117. JiangSu Dualix Spectral Imaging Technology Basic Information,

Manufacturing Base and Competitors

Table 118. JiangSu Dualix Spectral Imaging Technology Major Business

Table 119. JiangSu Dualix Spectral Imaging Technology NIR Hyperspectral Camera Product and Services

Table 120. JiangSu Dualix Spectral Imaging Technology NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. JiangSu Dualix Spectral Imaging Technology Recent Developments/Updates

Table 122. JiangSu Dualix Spectral Imaging Technology Competitive Strengths & Weaknesses

Table 123. Surface Optics Basic Information, Manufacturing Base and Competitors

Table 124. Surface Optics Major Business

Table 125. Surface Optics NIR Hyperspectral Camera Product and Services

Table 126. Surface Optics NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Surface Optics Recent Developments/Updates

Table 128. Surface Optics Competitive Strengths & Weaknesses

Table 129. Shenzhen Zhongda Ruihe Technology Basic Information, Manufacturing Base and Competitors

Table 130. Shenzhen Zhongda Ruihe Technology Major Business

Table 131. Shenzhen Zhongda Ruihe Technology NIR Hyperspectral Camera Product and Services

Table 132. Shenzhen Zhongda Ruihe Technology NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shenzhen Zhongda Ruihe Technology Recent Developments/Updates

Table 134. Shenzhen Zhongda Ruihe Technology Competitive Strengths & Weaknesses

Table 135. Resonon Basic Information, Manufacturing Base and Competitors

Table 136. Resonon Major Business

Table 137. Resonon NIR Hyperspectral Camera Product and Services

Table 138. Resonon NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Resonon Recent Developments/Updates

Table 140. Resonon Competitive Strengths & Weaknesses

Table 141. ITRES Basic Information, Manufacturing Base and Competitors

Table 142. ITRES Major Business

Table 143. ITRES NIR Hyperspectral Camera Product and Services

Table 144. ITRES NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. ITRES Recent Developments/Updates

Table 146. ITRES Competitive Strengths & Weaknesses

Table 147. Hangzhou Color Spectrum Technology Basic Information, Manufacturing Base and Competitors

Table 148. Hangzhou Color Spectrum Technology Major Business

Table 149. Hangzhou Color Spectrum Technology NIR Hyperspectral Camera Product and Services

Table 150. Hangzhou Color Spectrum Technology NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hangzhou Color Spectrum Technology Recent Developments/Updates

Table 152. Hangzhou Color Spectrum Technology Competitive Strengths & Weaknesses

Table 153. Brimrose Basic Information, Manufacturing Base and Competitors

Table 154. Brimrose Major Business

Table 155. Brimrose NIR Hyperspectral Camera Product and Services

Table 156. Brimrose NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Brimrose Recent Developments/Updates

Table 158. Brimrose Competitive Strengths & Weaknesses

Table 159. BaySpec Basic Information, Manufacturing Base and Competitors

Table 160. BaySpec Major Business

Table 161. BaySpec NIR Hyperspectral Camera Product and Services

Table 162. BaySpec NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. BaySpec Recent Developments/Updates

Table 164. BaySpec Competitive Strengths & Weaknesses

Table 165. Spectra vista Basic Information, Manufacturing Base and Competitors

Table 166. Spectra vista Major Business

Table 167. Spectra vista NIR Hyperspectral Camera Product and Services

Table 168. Spectra vista NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Spectra vista Recent Developments/Updates

Table 170. Spectra vista Competitive Strengths & Weaknesses

Table 171. TruTag Basic Information, Manufacturing Base and Competitors

Table 172. TruTag Major Business

Table 173. TruTag NIR Hyperspectral Camera Product and Services

Table 174. TruTag NIR Hyperspectral Camera Production (Units), Price (K US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. TruTag Recent Developments/Updates

Table 176. TruTag Competitive Strengths & Weaknesses

Table 177. Global Key Players of NIR Hyperspectral Camera Upstream (Raw Materials)

Table 178. Global NIR Hyperspectral Camera Typical Customers

Table 179. NIR Hyperspectral Camera Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. NIR Hyperspectral Camera Picture

Figure 2. World NIR Hyperspectral Camera Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World NIR Hyperspectral Camera Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World NIR Hyperspectral Camera Production (2021-2032) & (Units)

Figure 5. World NIR Hyperspectral Camera Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World NIR Hyperspectral Camera Production Value Market Share by Region (2021-2032)

Figure 7. World NIR Hyperspectral Camera Production Market Share by Region (2021-2032)

Figure 8. North America NIR Hyperspectral Camera Production (2021-2032) & (Units)

Figure 9. Europe NIR Hyperspectral Camera Production (2021-2032) & (Units)

Figure 10. China NIR Hyperspectral Camera Production (2021-2032) & (Units)

Figure 11. Japan NIR Hyperspectral Camera Production (2021-2032) & (Units)

Figure 12. NIR Hyperspectral Camera Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 15. World NIR Hyperspectral Camera Consumption Market Share by Region (2021-2032)

Figure 16. United States NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 17. China NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 18. Europe NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 19. Japan NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 20. South Korea NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 21. ASEAN NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

Figure 22. India NIR Hyperspectral Camera Consumption (2021-2032) & (Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for NIR Hyperspectral Camera Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for NIR Hyperspectral Camera Markets in 2025

Figure 26. United States VS China: NIR Hyperspectral Camera Production Value

Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: NIR Hyperspectral Camera Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: NIR Hyperspectral Camera Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers NIR Hyperspectral Camera Production Market Share 2025

Figure 30. China Based Manufacturers NIR Hyperspectral Camera Production Market Share 2025

Figure 31. Rest of World Based Manufacturers NIR Hyperspectral Camera Production Market Share 2025

Figure 32. World NIR Hyperspectral Camera Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World NIR Hyperspectral Camera Production Value Market Share by Type in 2025

Figure 34. NIR Hyperspectral Camera

Figure 35. SWIR Hyperspectral Camera

Figure 36. World NIR Hyperspectral Camera Production Market Share by Type (2021-2032)

Figure 37. World NIR Hyperspectral Camera Production Value Market Share by Type (2021-2032)

Figure 38. World NIR Hyperspectral Camera Average Price by Type (2021-2032) & (K US\$/Unit)

Figure 39. World NIR Hyperspectral Camera Production Value by Technology, (USD Million), 2021 & 2025 & 2032

Figure 40. World NIR Hyperspectral Camera Production Value Market Share by Technology in 2025

Figure 41. Push-broom

Figure 42. Snapshot / Area-scan

Figure 43. World NIR Hyperspectral Camera Production Market Share by Technology (2021-2032)

Figure 44. World NIR Hyperspectral Camera Production Value Market Share by Technology (2021-2032)

Figure 45. World NIR Hyperspectral Camera Average Price by Technology (2021-2032) & (K US\$/Unit)

Figure 46. World NIR Hyperspectral Camera Production Value by Sales Channels, (USD Million), 2021 & 2025 & 2032

Figure 47. World NIR Hyperspectral Camera Production Value Market Share by Sales Channels in 2025

Figure 48. Direct Sales

Figure 49. Distribution

Figure 50. World NIR Hyperspectral Camera Production Market Share by Sales Channels (2021-2032)

Figure 51. World NIR Hyperspectral Camera Production Value Market Share by Sales Channels (2021-2032)

Figure 52. World NIR Hyperspectral Camera Average Price by Sales Channels (2021-2032) & (K US\$/Unit)

Figure 53. World NIR Hyperspectral Camera Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 54. World NIR Hyperspectral Camera Production Value Market Share by Application in 2025

Figure 55. National Defense and Security

Figure 56. Environmental Monitoring and Mineralogy

Figure 57. Food and Agriculture

Figure 58. Life Sciences and Medical Diagnostics

Figure 59. Vegetation and Ecological Research

Figure 60. Environmental Protection and Recycling

Figure 61. Other

Figure 62. World NIR Hyperspectral Camera Production Market Share by Application (2021-2032)

Figure 63. World NIR Hyperspectral Camera Production Value Market Share by Application (2021-2032)

Figure 64. World NIR Hyperspectral Camera Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 65. NIR Hyperspectral Camera Industry Chain

Figure 66. NIR Hyperspectral Camera Procurement Model

Figure 67. NIR Hyperspectral Camera Sales Model

Figure 68. NIR Hyperspectral Camera Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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