

Global NIR Hyperspectral Camera Market Growth 2026-2032

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Abstracts

The global NIR Hyperspectral Camera market size is predicted to grow from US\$ 171 million in 2025 to US\$ 474 million in 2032; it is expected to grow at a CAGR of 16.1% from 2026 to 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

LP Information, Inc. (LPI) ' newest research report, the ?NIR Hyperspectral Camera Industry Forecast? looks at past sales and reviews total world NIR Hyperspectral

Camera sales in 2025, providing a comprehensive analysis by region and market sector of projected NIR Hyperspectral Camera sales for 2026 through 2032. With NIR Hyperspectral Camera sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world NIR Hyperspectral Camera industry.

This Insight Report provides a comprehensive analysis of the global NIR Hyperspectral Camera landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on NIR Hyperspectral Camera portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global NIR Hyperspectral Camera market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for NIR Hyperspectral Camera and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global NIR Hyperspectral Camera.

This report presents a comprehensive overview, market shares, and growth opportunities of NIR Hyperspectral Camera market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

NIR Hyperspectral Camera

SWIR Hyperspectral Camera

Segmentation by Technology:

Push-broom

Snapshot / Area-scan

Segmentation by Sales Channels:

Direct Sales

Distribution

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

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global NIR Hyperspectral Camera market?

What factors are driving NIR Hyperspectral Camera market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do NIR Hyperspectral Camera market opportunities vary by end market size?

How does NIR Hyperspectral Camera break out by Type, by Application?

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