

Global Compact Hyperspectral Camera Market Growth 2026-2032

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Abstracts

The global Compact Hyperspectral Camera market size is predicted to grow from US\$ 105 million in 2025 to US\$ 202 million in 2032; it is expected to grow at a CAGR of 9.8% from 2026 to 2032.

A Compact Hyperspectral Camera is a small, lightweight spectral imaging device that captures image data across many narrow and continuous wavelength bands, allowing each pixel to contain both spatial information and spectral information. It is mainly used when full hyperspectral analysis is required in portable, UAV, robotic, laboratory, or machine-vision systems rather than in large fixed scanning platforms. VNIR hyperspectral imaging typically captures many narrow bands in the visible-to-near-infrared range, while compact systems may also cover SWIR depending on the sensor design.

In 2025, global Compact Hyperspectral Camera production reached approximately 3,849 units, with an average global market price of around US\$ 27,800 per unit. The production capacity of Compact Hyperspectral Camera is approximately 4 K units per year, the average gross profit margin was 31-33%.

The upstream supply chain includes image sensors, CMOS/InGaAs detectors, optical lenses, gratings, filters, prisms, AOTF modules, calibration targets, embedded processors, cooling modules, housings, and image-processing software. Midstream companies integrate optical modules, sensors, electronics, firmware, calibration algorithms, and spectral analysis software into compact hyperspectral cameras. Downstream customers include agriculture, food inspection, industrial sorting, pharmaceuticals, biomedical imaging, environmental monitoring, remote sensing, UAV mapping, defense, mining, and research institutions.

The cost structure of a compact hyperspectral camera is mainly composed of spectral sensors and detectors, optical components, calibration and spectral accuracy control, embedded electronics and data-processing modules, mechanical housing and miniaturization design, software and algorithm development, assembly/testing, and after-sales technical support. For VNIR products, sensor and optics usually dominate cost; for SWIR products, InGaAs detectors, cooling, and precision optical design account for a higher share, making SWIR models significantly more expensive than VNIR compact cameras.

LP Information, Inc. (LPI) ' newest research report, the "Compact Hyperspectral Camera Industry Forecast" looks at past sales and reviews total world Compact Hyperspectral Camera sales in 2025, providing a comprehensive analysis by region and market sector of projected Compact Hyperspectral Camera sales for 2026 through 2032. With Compact Hyperspectral Camera sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Compact Hyperspectral Camera industry.

This Insight Report provides a comprehensive analysis of the global Compact 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 Compact Hyperspectral Camera portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Compact Hyperspectral Camera market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Compact 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 Compact Hyperspectral Camera.

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

Segmentation by Type:

VNIR

NIR

SWIR

MWIR/LWIR

Segmentation by Imaging Method:

Snapshot

Push-Broom

Other

Segmentation by Product Weight:

Miniature: 2 kg

Segmentation by Application:

Agriculture

Food Inspection

Industrial Sorting

Pharmaceuticals

Biomedical Imaging

Others

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.

Cubert

IMEC

XIMEA

Resonon

HinaLea Imaging

NIREOS

Surface Optics Corporation

BaySpec

FigSpec

Norsk Elektro Optikk

Specim

Corning (NovaSol)

Key Questions Addressed in this Report

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

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

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

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

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

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