

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

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Abstracts

The global Compact Hyperspectral Camera market size is expected to reach \$ 206 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

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.

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

This report is a detailed and comprehensive analysis of the world market for Compact 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 Compact Hyperspectral Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Compact 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 Cubert, IMEC, XIMEA, Resonon, HinaLea Imaging, NIREOS, Surface Optics Corporation, BaySpec, FigSpec, Norsk Elektro Optikk, 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 Compact Hyperspectral Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (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 Compact Hyperspectral Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Compact Hyperspectral Camera Market, Segmentation by Type:

VNIR

NIR

SWIR

MWIR/LWIR

Global Compact Hyperspectral Camera Market, Segmentation by Imaging Method:

Snapshot

Push-Broom

Other

Global Compact Hyperspectral Camera Market, Segmentation by Product Weight:

Miniature: 2 kg

Global Compact Hyperspectral Camera Market, Segmentation by Application:

Agriculture

Food Inspection

Industrial Sorting

Pharmaceuticals

Biomedical Imaging

Others

Companies Profiled:

Cubert

IMEC

XIMEA

Resonon

HinaLea Imaging

NIREOS

Surface Optics Corporation

BaySpec

FigSpec

Norsk Elektro Optikk

Specim

Corning (NovaSol)

Key Questions Answered:

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

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