

Global Hyperspectral Imaging Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

Hyperspectral Imaging combine the power of digital imaging and spectroscopy to provide more detailed scene information than regular color cameras. A normal color camera only acquires three different spectral channels corresponding to the red, green, and blue visual primary colors. Hyperspectral cameras can capture the light intensity (radiation) of a large number (usually tens to hundreds) of continuous spectral bands. Thus, each pixel in the image contains a continuous spectrum (radiation or reflection) and can be used to characterize objects in the scene with high precision and detail. Hyperspectral imaging results in greatly improved ability to classify objects in the scene based on its spectral properties.

The Hyperspectral Imaging industry can be broken down into several segments, Visible/Near Infrared (VNIR), Short Wave Infrared (SWIR), Medium Wave Infrared (MWIR), Long Wave Infrared (LWIR), Others, etc.

Across the world, the major players cover Specim, Headwall Photonics, IMEC, Cubert, Telops, Zolix (Dualix), Inno-spec, Surface Optics, Corning (NovaSol), Resonon, etc.

According to our (Global Info Research) latest study, the global Hyperspectral Imaging market size was valued at US\$ 129 million in 2023 and is forecast to a readjusted size of USD 325 million by 2030 with a CAGR of 14.3% during review period.

The main manufacturers are Headwall Photonics, Specim, Cubert and IMEC, among which Specim is the largest manufacturer with a 18% market share. In the global hyperspectral imaging equipment market, North America is the largest producing areas, occupying about 45% of the market share, followed by Europe and Asia-Pacific, both

occupying over 50% of the market. In terms of product, visible/near infrared (VNIR) is the largest segment, with a share over 45%. And in terms of application, the largest application is national defense security, followed by environmental monitoring and mineralogy.

This report is a detailed and comprehensive analysis for global Hyperspectral Imaging market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2024, are provided.

Key Features:

Global Hyperspectral Imaging market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2019-2030

Global Hyperspectral Imaging market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2019-2030

Global Hyperspectral Imaging market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2019-2030

Global Hyperspectral Imaging market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K USD/Unit), 2019-2024

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hyperspectral Imaging

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hyperspectral Imaging market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Specim, Headwall Photonics, IMEC, Cubert, Telops, Zolix (Dualix), inno-spec GmbH, Surface Optics, Corning (NovaSol), Resonon, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Hyperspectral Imaging market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Visible/Near Infrared (VNIR)

Short Wave Infrared (SWIR)

Medium Wave Infrared (MWIR)

Long Wave Infrared (LWIR)

Others

Market segment by Application

National Defense Security

Environmental Monitoring And Mineralogy

Food And Agriculture

Life Sciences And Medical Diagnosis

Vegetation And Ecological Research

Environmental Recycling Field

Others

Major players covered

Specim

Headwall Photonics

IMEC

Cubert

Telops

Zolix (Dualix)

inno-spec GmbH

Surface Optics

Corning (NovaSol)

Resonon

Norsk Elektro Optikk A/S

ITRES

Brimrose

Wayho Technology

BaySpec

Spectra vista

TruTag

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hyperspectral Imaging product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hyperspectral Imaging, with price, sales quantity, revenue, and global market share of Hyperspectral Imaging from 2019 to 2024.

Chapter 3, the Hyperspectral Imaging competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hyperspectral Imaging breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2019 to 2024. and Hyperspectral Imaging market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hyperspectral Imaging.

Chapter 14 and 15, to describe Hyperspectral Imaging sales channel, distributors, customers, research findings and conclusion.

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