

Global Infrared Band Hyperspectral Imaging (HSI) Equipment Market Growth 2026-2032

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Abstracts

The global Infrared Band Hyperspectral Imaging (HSI) Equipment market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of %from 2026 to 2032.

Infrared hyperspectral imaging (HSI) equipment is a device that can simultaneously capture the image information of a target object in multiple continuous and narrow spectral bands in the infrared band. It uses a combination of spectrometers and imaging systems to achieve the simultaneous acquisition of spectral information and spatial information of the target object. Infrared hyperspectral imaging equipment can provide dozens to hundreds of continuous and narrow spectral channels in the infrared band to achieve a detailed analysis of the spectral characteristics of the target object. The device can cover a wide spectral range from visible light to far infrared, meeting the imaging needs of different application fields. Infrared band hyperspectral imaging equipment can obtain its spectral information and image information by receiving infrared light reflected or radiated by the target object without contacting the target object, thus realizing non-contact detection. Since it can simultaneously obtain the spectral information and spatial information of the target object, the infrared band hyperspectral imaging equipment can provide richer and more comprehensive information than traditional imaging technology, which helps to more accurately identify and analyze the target object.

With the advancement of science and technology, infrared hyperspectral imaging technology is also constantly innovating and improving. New imaging algorithms, higher-precision spectral resolution, and faster imaging speed have significantly improved the performance of infrared hyperspectral imaging equipment. In addition, as people's understanding of infrared hyperspectral imaging technology deepens, its application

areas are also expanding. For example, in the field of precision agriculture, the use of infrared hyperspectral imaging technology can monitor the growth of crops in real time and provide a scientific basis for agricultural production. The infrared hyperspectral imaging equipment market will maintain a strong growth momentum in the next few years.

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

This Insight Report provides a comprehensive analysis of the global Infrared Band Hyperspectral Imaging (HSI) Equipment 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 Infrared Band Hyperspectral Imaging (HSI) Equipment portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Infrared Band Hyperspectral Imaging (HSI) Equipment market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Band Hyperspectral Imaging (HSI) Equipment 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 Infrared Band Hyperspectral Imaging (HSI) Equipment.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Band Hyperspectral Imaging (HSI) Equipment market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Shortwave

Medium Wave

Long Wave

Segmentation by Application:

Military Reconnaissance

Mineral Exploration

Environmental Monitoring

Agricultural Production and Crop Monitoring

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.

Headwall Photonics

Specim

Resonon

Cubert

Surface Optics

Hangzhou Hyperspectral Imaging Technology

Norsk Elektro Optikk

ClydeHSI

BaySpec

Telops

IMEC

Teledyne DALSA

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Band Hyperspectral Imaging (HSI) Equipment market?

What factors are driving Infrared Band Hyperspectral Imaging (HSI) Equipment market growth, globally and by region?

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

How do Infrared Band Hyperspectral Imaging (HSI) Equipment market opportunities vary by end market size?

How does Infrared Band Hyperspectral Imaging (HSI) Equipment break out by Type, by Application?

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