

Global InGaAs SWIR Detector Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global InGaAs SWIR Detector market size was valued at US\$ 239 million in 2024 and is forecast to a readjusted size of USD 390 million by 2031 with a CAGR of 7.3% during review period.

Indium gallium arsenic (InGaAs) material is considered to be an excellent material for making short wave infrared detector. The cutoff wavelength of short wave infrared detector made of InGaAs is about 1.7 μ m, which has the advantages of high absorption coefficient, high mobility and high detection rate.

The primary materials used for manufacturing short-wave infrared detectors include HgCdTe, InGaAs, PbS, and PtSi. With the continuous improvement in the growth and chip fabrication processes for InGaAs, detectors made from this material have become the best choice for SWIR applications. They boast a quantum efficiency of approximately 70% to 90%, a high mobility of around 8000 cm²/(V·s) at room temperature, along with high sensitivity, fast response times, and cost-effectiveness.

InGaAs SWIR detectors are widely used in various market sectors, including military, security monitoring, industrial applications, medical imaging, and scientific research. Major global manufacturers of InGaAs SWIR detectors include Hamamatsu Photonics, SCD, Lynred, I3system, Teledyne Technologies, and Sensors Unlimited. These leading companies are renowned in the industry for their outstanding product performance and customer satisfaction. However, market competition is intensifying, with more manufacturers entering the InGaAs SWIR detector space, including prominent domestic manufacturers in China such as Jiwu Optoelectronics, Guohui Optoelectronics, Zhongke Dexin, and Lideng Optoelectronics.

The main types of InGaAs SWIR detectors include single-element, linear array, and two-dimensional array detectors, with single-element InGaAs SWIR detectors holding the largest market share in terms of sales.

The primary consumer regions for InGaAs SWIR detectors are North America, Europe, and the Asia-Pacific region, with the Asia-Pacific region being the largest consumer, accounting for approximately 43% of global revenue in 2022.

Industry Driving Factors:

Rapid Development of Infrared Detectors: Short-wave infrared InGaAs focal plane detectors are a research hotspot both domestically and internationally. China's major strategic initiatives for the next generation of aerospace remote sensing instruments require high-performance, large-scale, small-pixel short-wave infrared InGaAs focal plane detectors with high spatial resolution, energy resolution, and temporal resolution.

Increased Domestic Production: Foreign research on InGaAs infrared focal plane devices began earlier, and many manufacturers have developed mature product lines. Although domestic research started later, significant progress has been made in recent years, narrowing the gap with international competitors.

Continuous Development of the Military Electronics Industry: With ongoing technological advancements, the military electronics sector is continuously innovating and improving. This industry plays a crucial role in national security and defense construction, enhancing national defense capabilities and security assurance. Moreover, military electronics are a vital part of the country's high-tech industry, contributing positively to economic development and technological progress.

In summary, InGaAs SWIR detectors are key components with significant applications across various industries, driven by advancements in technology and increasing domestic capabilities.

This report is a detailed and comprehensive analysis for global InGaAs SWIR Detector 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 2025, are provided.

Key Features:

Global InGaAs SWIR Detector market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global InGaAs SWIR Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global InGaAs SWIR Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global InGaAs SWIR Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

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 InGaAs SWIR Detector

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 InGaAs SWIR Detector 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 Hamamatsu, SCD, Lynred, I3system, Teledyne Technologies, Sensors Unlimited, Jiwu Optoelectronic, Sony, OSI Optoelectronics, GHOPTO, etc.

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

Market Segmentation

InGaAs SWIR Detector market is split by Type and by Application. For the period 2020-2031, 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

Single-Element InGaAs SWIR Sensors

Line InGaAs SWIR Sensors

Area InGaAs SWIR Sensors

Market segment by Application

Military

Surveillance

Industrial

Medical

Scientific Research

Other Application

Major players covered

Hamamatsu

SCD

Lynred

I3system

Teledyne Technologies

Sensors Unlimited

Jiwu Optoelectronic

Sony

OSI Optoelectronics

GHOPTO

TE (First Sensor)

ZKDX

XenICs

Xi'an Leading Optoelectronic Technology

CETC (NO.44 Institute)

NORINCO GROUP (Kunming Institute of Physics)

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 InGaAs SWIR Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of InGaAs SWIR Detector, with price, sales quantity, revenue, and global market share of InGaAs SWIR Detector from 2020 to 2025.

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

Chapter 4, the InGaAs SWIR Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and InGaAs SWIR Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 InGaAs SWIR Detector.

Chapter 14 and 15, to describe InGaAs SWIR Detector sales channel, distributors, customers, research findings and conclusion.

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