

Global Uncooled Infrared Detector Array 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 Uncooled Infrared Detector Array market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Uncooled planar detectors do not require refrigeration devices and can work at room temperature. They have the advantages of small size, light weight, low power consumption, long life, low cost, and fast startup. Although the sensitivity is not as good as that of cooled infrared focal plane detectors, the performance of uncooled infrared focal plane detectors can meet the technical needs of some military equipment and most civilian fields. The detector array is a device composed of multiple photoconductive detector elements arranged according to certain rules. The photoconductive detector itself is a new type of sub-nanosecond pulse radiation detector with the characteristics of fast time response, large output current, small size, and light weight. When these detector elements are arranged in an array, they can work together to detect and respond to incident light signals or radiation.

The market is constantly changing, and the following points are worth noting:

The market concentration is high.

The EU RoHS3 directive points out the restriction of the use of certain hazardous

substances in electrical and electronic equipment. It regulates the use and introduction of hazardous substances in electrical and electronic components. RoHS stands for the Restriction of Hazardous Substances Directive, which refers to the restriction of the use of hazardous substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

With the introduction of the RoHS EU Restriction of Hazardous Substances Directive, infrared detectors based on mercury cadmium telluride (HgCdTe), lead selenide (PbS) and lead sulfide (PbSe) will be banned from industrial applications after July 2024, which will further stimulate the transition to infrared detectors based on I-V semiconductors.

This report is a detailed and comprehensive analysis for global Uncooled Infrared Detector Array 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 Uncooled Infrared Detector Array market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

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

Global Uncooled Infrared Detector Array 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 Uncooled Infrared Detector Array 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:

Global Uncooled Infrared Detector Array Market 2025 by Manufacturers, Regions, Type and Application, Forecast...

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Uncooled Infrared Detector Array
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 Uncooled Infrared Detector Array 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 VIGO Photonics, Hamamatsu Photonics, Teledyne Judson Technologies, trinamiX, Infrared Materials, Inc, NIT, NEP, Xi'an Leading Optoelectronic Technology Co.,Ltd, Wuxi Zhongke Dexin Perception Technology Co., Ltd., Shanghai Jiwu Optoelectronics Technology Co., Ltd, etc.

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

Market Segmentation

Uncooled Infrared Detector Array 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

As Type

Pb Type

Hg Type

Others

Market segment by Application

Military

Civilian

Major players covered

VIGO Photonics

Hamamatsu Photonics

Teledyne Judson Technologies

trinamiX

Infrared Materials, Inc

NIT

NEP

Xi'an Leading Optoelectronic Technology Co.,Ltd

Wuxi Zhongke Dexin Perception Technology Co., Ltd.

Shanghai Jiwu Optoelectronics Technology Co., Ltd

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 Uncooled Infrared Detector Array product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Uncooled Infrared Detector Array 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 Uncooled Infrared Detector Array 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 Uncooled Infrared Detector Array.

Chapter 14 and 15, to describe Uncooled Infrared Detector Array sales channel, distributors, customers, research findings and conclusion.

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