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Global Uncooled Vanadium Oxide Infrared Detectors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Uncooled Vanadium Oxide Infrared Detectors market size was valued at US$ 1611 million in 2025 and is forecast to a readjusted size of US$ 2337 million by 2032 with a CAGR of 5.5% during review period.

Uncooled vanadium oxide (VOx) infrared detectors are devices used in thermal imaging applications to detect infrared radiation emitted by objects. Unlike cooled infrared detectors that require cooling systems like cryogenic cooling to operate, uncooled detectors operate at or near room temperature without the need for additional cooling.

VOx is a material known for its temperature-sensitive electrical properties. When exposed to infrared radiation, the electrical resistance of VOx changes. This change in resistance is utilized to detect and measure the incoming infrared radiation, converting it into an electrical signal.

Uncooled VOx detectors are often used in various applications such as night vision systems, thermal cameras, medical imaging, and industrial monitoring. Their ability to operate without cooling systems simplifies their design, reduces costs, and makes them more compact and portable for different applications.

At present, only a few countries in the world, such as the United States, Japan, Israel, and China, have mastered the design technology of vanadium oxide uncooled infrared chips, and major foreign suppliers have certain export restrictions on my country. Due to the special sensitivity of infrared products, special equipment products are often subject to national product and technology monopoly. In particular, leading countries in

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technology are highly confidential in infrared thermal imaging products and technologies for special equipment, resulting in conflicts between infrared product companies in different countries. Direct market competition generally does not occur in the defense field. Specifically, the competition in this industry is concentrated in the United States, Japan, and Israel. Among them, the United States maintains its lead with its strong scientific research advantages and occupies an absolutely dominant position in the international special equipment market. High-end products are under control abroad. Currently, with the development of domestic technology, some mid-range products are being imported. With the rise of domestic domestic enterprises, localized supply has begun to bear fruit, and the share of imports is getting smaller and smaller. It is predicted that in the next few years, the country will have the conditions for exporting.

The price of the product is currently mainly limited by manufacturing costs and technology. Although the impact of raw materials has been greater in recent years, due to the reduction in manufacturing costs, the overall trend has been that prices have been declining in recent years. The rise in raw material chips has brought about an increase in costs. However, in order to maintain stable customers, some companies selectively bear the cost increases caused by rising raw material prices, which has affected the company"s gross profit decline.

This report is a detailed and comprehensive analysis for global Uncooled Vanadium Oxide Infrared Detectors 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 Vanadium Oxide Infrared Detectors market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Uncooled Vanadium Oxide Infrared Detectors market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

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Global Uncooled Vanadium Oxide Infrared Detectors market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Uncooled Vanadium Oxide Infrared Detectors market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

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 Uncooled Vanadium Oxide Infrared Detectors

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 Vanadium Oxide Infrared Detectors 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 FLIR, Lynred, L-3, BAE, DRS, Raytheon, SCD, NEC, Raytron Technology, North GuangWei Technology, etc.

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

Market Segmentation

Uncooled Vanadium Oxide Infrared Detectors market is split by Type and by Application. For the period 2021-2032, 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.

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Market segment by Type

Metal Packaging

Ceramic Packaging

Wafer Level Packaging

Market segment by Application

Civilian

Military

Major players covered

FLIR

Lynred

L-3

BAE

DRS

Raytheon

SCD

NEC

Raytron Technology

North GuangWei Technology

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Wuhan Guide Infrared

HIKMICRO

Zhejiang Dali Technology

Beijing Fjr Optoelectronic Technology

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 Vanadium Oxide Infrared Detectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Uncooled Vanadium Oxide Infrared Detectors, with price, sales quantity, revenue, and global market share of Uncooled Vanadium Oxide Infrared Detectors from 2021 to 2026.

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

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Chapter 4, the Uncooled Vanadium Oxide Infrared Detectors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026.and Uncooled Vanadium Oxide Infrared Detectors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Vanadium Oxide Infrared Detectors.

Chapter 14 and 15, to describe Uncooled Vanadium Oxide Infrared Detectors sales channel, distributors, customers, research findings and conclusion.

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