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Global Uncooled Vanadium Oxide Infrared Detectors Market Growth 2026-2032

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Abstracts

The global Uncooled Vanadium Oxide Infrared Detectors market size is predicted to grow from US$ 1532 million in 2025 to US$ 2265 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

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 technology are highly confidential in infrared thermal imaging products and technologies for special equipment, resulting in conflicts between infrared product companies in

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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.

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

This Insight Report provides a comprehensive analysis of the global Uncooled Vanadium Oxide Infrared Detectors 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 Uncooled Vanadium Oxide Infrared Detectors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Uncooled Vanadium Oxide Infrared Detectors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Uncooled Vanadium Oxide Infrared Detectors and breaks down the forecast by Type, by Application, geography, and market size to highlight

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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 Uncooled Vanadium Oxide Infrared Detectors.

This report presents a comprehensive overview, market shares, and growth opportunities of Uncooled Vanadium Oxide Infrared Detectors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Metal Packaging

Ceramic Packaging

Wafer Level Packaging

Segmentation by Application:

Civilian

Military

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

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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

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from primary experts and analysing the company's coverage, product portfolio, its market penetration.

FLIR

Lynred

L-3

BAE

DRS

Raytheon

SCD

NEC

Raytron Technology

North GuangWei Technology

Wuhan Guide Infrared

HIKMICRO

Zhejiang Dali Technology

Beijing Fjr Optoelectronic Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Uncooled Vanadium Oxide Infrared Detectors market?

What factors are driving Uncooled Vanadium Oxide Infrared Detectors market

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growth, globally and by region?

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

How do Uncooled Vanadium Oxide Infrared Detectors market opportunities vary by end market size?

How does Uncooled Vanadium Oxide Infrared Detectors break out by Type, by Application?

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