

Global Vanadium Oxide Infrared Detector Chips Market Growth 2026-2032

<https://marketpublishers.com/r/G700BB6364F9EN.html>

Date: June 2026

Pages: 113

Price: US\$ 3,660.00 (Single User License)

ID: G700BB6364F9EN

Abstracts

The global Vanadium Oxide Infrared Detector Chips market size is predicted to grow from US\$ 1608 million in 2025 to US\$ 1999 million in 2032; it is expected to grow at a CAGR of 3.2% from 2026 to 2032.

Since the 1930s, cryogenic detectors have dominated the development of infrared detectors. However, the requirement for low-temperature cooling in cryogenic detectors not only makes them expensive but also increases the size of the system and makes them inconvenient to use. Non-cryogenic infrared focal plane arrays (FPAs) do not require a cooling mechanism and can operate at room temperature, offering advantages such as compact size, light weight, low power consumption, long lifespan, low cost, and quick start-up. Although they are less sensitive than cryogenic infrared FPAs, the performance of non-cryogenic FPAs is sufficient to meet the technical requirements of some military equipment and the vast majority of civilian technology fields. Currently, the production volume of non-cryogenic infrared detectors far exceeds that of cryogenic detectors, mainly due to the high demand in the civilian market, as well as their ability to meet some military market needs. Non-cryogenic infrared detectors can be categorized into vanadium oxide infrared detectors and amorphous silicon infrared detectors based on different MEMS sensor materials. Vanadium oxide infrared detectors are the most widely used in the non-cryogenic domain. The infrared semiconductor material used is vanadium oxide, which has a high temperature coefficient of resistance, ranging from 2% to 3%/K. Due to the significant change in resistance with temperature, these detectors have a high sensitivity. Most companies produce everything from infrared detector chips, modules, to end products in a complete industrial chain. Furthermore, a significant portion of the infrared detector chips produced by these companies is used internally, so the vanadium oxide infrared detector chips mentioned in this paper include both products used in-house and those sold externally.

United States market for Vanadium Oxide Infrared Detector Chips is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Vanadium Oxide Infrared Detector Chips is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Vanadium Oxide Infrared Detector Chips is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Vanadium Oxide Infrared Detector Chips players cover Teledyne FLIR, Raytron Technology, HIKMICRO, Wuhan Guide Infrared, BAE Systems, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vanadium Oxide Infrared Detector Chips 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 Vanadium Oxide

Infrared Detector Chips.

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

Segmentation by Type:

- Wafer Level Packaging

- Metal Packaging

- Ceramic Packaging

Segmentation by Application:

- Self-produced and Used

- Commercial

- Defense

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.

Teledyne FLIR

Raytron Technology

HIKMICRO

Wuhan Guide Infrared

BAE Systems

Leonardo DRS

Semi Conductor Devices (SCD)

NEC

L3Harris Technologies, Inc.

Zhejiang Dali Technology

North Guangwei Technology

Beijing Fjr Optoelectronic Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Vanadium Oxide Infrared Detector Chips market?

What factors are driving Vanadium Oxide Infrared Detector Chips market growth, globally and by region?

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

How do Vanadium Oxide Infrared Detector Chips market opportunities vary by end market size?

How does Vanadium Oxide Infrared Detector Chips break out by Type, by Application?

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