

Global Vanadium Oxide Infrared Microbolometers Market Growth 2024-2030

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Abstracts

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Vanadium oxide infrared microbolometers are a specific type of uncooled thermal imaging sensor technology. These microbolometers are constructed using vanadium oxide (VOx) as the sensing material.

Microbolometers work on the principle that changes in temperature cause a change in electrical resistance in a material. When infrared radiation strikes the surface of the microbolometer, it heats up, causing a change in resistance. This change in resistance is then converted into an electrical signal, which can be processed to create an image.

Vanadium oxide is particularly well-suited for use in microbolometers due to its sensitivity to infrared radiation and its ability to undergo a phase transition at a specific temperature, known as the metal-insulator transition. This transition allows for a rapid and reversible change in resistance, making vanadium oxide microbolometers highly responsive to changes in temperature and ideal for thermal imaging applications.

Vanadium oxide infrared microbolometers are commonly used in thermal imaging cameras for various applications, including security and surveillance, automotive night vision systems, industrial monitoring, and medical imaging. They offer advantages such as low power consumption, small size, and compatibility with uncooled operation, making them well-suited for integration into portable and handheld thermal imaging devices.

The global Vanadium Oxide Infrared Microbolometers market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of

%from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the “Vanadium Oxide Infrared Microbolometers Industry Forecast” looks at past sales and reviews total world Vanadium Oxide Infrared Microbolometers sales in 2023, providing a comprehensive analysis by region and market sector of projected Vanadium Oxide Infrared Microbolometers sales for 2024 through 2030. With Vanadium Oxide Infrared Microbolometers 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 Microbolometers industry.

This Insight Report provides a comprehensive analysis of the global Vanadium Oxide Infrared Microbolometers 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 Microbolometers 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 Microbolometers market.

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

United States market for Vanadium Oxide Infrared Microbolometers is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Vanadium Oxide Infrared Microbolometers is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Vanadium Oxide Infrared Microbolometers is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Vanadium Oxide Infrared Microbolometers 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 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Vanadium Oxide Infrared Microbolometers 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:

Civilian

Military

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

Lynred

Key Questions Addressed in this Report

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

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

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

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

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

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