

Global Ceramic Packaging Vanadium Oxide Infrared Detectors Market Growth 2024-2030

<https://marketpublishers.com/r/G87DFC7B4329EN.html>

Date: June 2024

Pages: 118

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

ID: G87DFC7B4329EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

Vanadium oxide (VOx) infrared detectors are devices used for detecting infrared radiation based on the properties of vanadium oxide material. These detectors operate in the mid-wave infrared (MWIR) and long-wave infrared (LWIR) regions of the electromagnetic spectrum.

Material Properties: Vanadium oxide exhibits a property known as metal-insulator transition, which means its electrical conductivity can change dramatically in response to temperature variations. This property makes vanadium oxide sensitive to infrared radiation.

Detection Principle: When infrared radiation strikes the vanadium oxide material, it causes localized heating, which alters its conductivity. This change in conductivity is proportional to the intensity of the incident infrared radiation. By measuring this change, the presence and intensity of infrared radiation can be detected and quantified.

Structure: VOx infrared detectors are often fabricated as thin films or layers of vanadium oxide deposited onto a substrate, such as silicon or sapphire. These thin films are typically patterned into pixels to create an array of detectors for imaging applications.

Operation: In operation, the vanadium oxide material is usually maintained at a specific temperature, either by passive cooling or active temperature control. This ensures that the material is in a state where it can detect infrared radiation effectively.

Applications: VOx infrared detectors find applications in various fields, including thermal

imaging, night vision, surveillance, industrial process monitoring, and gas detection. They are particularly useful in applications requiring high sensitivity, fast response times, and the ability to operate at room temperature or higher.

The global Ceramic Packaging Vanadium Oxide Infrared Detectors market size is projected to grow from US\$ 696 million in 2024 to US\$ 744 million in 2030; it is expected to grow at a CAGR of 1.1% from 2024 to 2030.

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

This Insight Report provides a comprehensive analysis of the global Ceramic Packaging 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 Ceramic Packaging 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 Ceramic Packaging Vanadium Oxide Infrared Detectors market.

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

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

Global key Ceramic Packaging Vanadium Oxide Infrared Detectors 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 Ceramic Packaging Vanadium Oxide Infrared Detectors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

12 μ m

17 μ m

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

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 Ceramic Packaging Vanadium Oxide Infrared Detectors market?

What factors are driving Ceramic Packaging Vanadium Oxide Infrared Detectors market growth, globally and by region?

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

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

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

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