

Global Vanadium Oxide Infrared Detectors for Civilian Market Growth 2024-2030

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Abstracts

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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 Vanadium Oxide Infrared Detectors for Civilian market size is projected to grow from US\$ 1025 million in 2024 to US\$ 1172 million in 2030; it is expected to grow at a CAGR of 2.3% from 2024 to 2030.

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

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

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

United States market for Vanadium Oxide Infrared Detectors for Civilian 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 Detectors for Civilian 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 Detectors for Civilian 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 Detectors for Civilian 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 Detectors for Civilian 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:

Business and Public Services

Industrial

Household Fields

Automotive Fields

Others

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 Detectors for Civilian market?

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

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

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

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

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