

# Global Vanadium Oxide Uncooled Infrared Detector Market Growth 2026-2032

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## Abstracts

The global Vanadium Oxide Uncooled Infrared Detector market size is predicted to grow from US\$ 887 million in 2025 to US\$ 1276 million in 2032; it is expected to grow at a CAGR of 5.4% from 2026 to 2032.

In 2025, the global production of vanadium oxide uncooled infrared detectors reached 5.9058 million units, with an average selling price of US\$153.45 per unit. The global annual production capacity of vanadium oxide uncooled infrared detectors is approximately 7.5 million units, with a gross profit margin of approximately 28.3%. Vanadium oxide uncooled infrared detectors are a type of detector that utilizes the property of vanadium oxide (VO<sub>2</sub>) materials to undergo a metal-insulator phase transition (MIT) at or near room temperature to detect infrared radiation. The upstream of the vanadium oxide uncooled infrared detector industry chain includes VO<sub>2</sub> thin film materials and precursors, thin film growth/deposition equipment, and packaging materials; the midstream consists of vanadium oxide uncooled infrared detector manufacturers; and the downstream mainly comprises military and civilian applications.

The vanadium oxide (VO<sub>2</sub>) uncooled infrared detector market is experiencing rapid growth, benefiting from the high sensitivity and low power consumption advantages of VO<sub>2</sub>'s switchable metal-insulator properties near room temperature, as well as the reduced cost and size due to decreased demand for cooling systems. Applications cover thermal imaging, security monitoring, automotive night vision, industrial inspection, and drone thermal imaging, driving the evolution of detection elements towards higher resolution, lower noise, wider response, and miniaturization. Industry trends focus on material process optimization, thin film deposition and stability improvement, device array integration, and high integration with readout circuits such as CMOS/OTFT, while facing challenges such as capacity expansion, long-term stability,

thermal management, and price volatility.

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

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

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

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

Segmentation by Type:

Metal Packaging

Ceramic Packaging

Wafer-Level Packaging

Segmentation by Pixel Size:

Large Pixel Size

Medium Pixel Size

Small Pixel Size

Segmentation by Operating Band:

Long-wave Infrared

Mid-wave Infrared

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.

Global Sensor Technology

SYTO PHOTONICS

VIGO System SA

FLIR

Lynred

BAE

L-3

DRS

Raytheon

SCD

NEC

North Guangwei Technology

GUIDE INFRARED

HIKMICRO

DALI TECHNOLOGY

GHOPTO

CETC

GSTIR

### Key Questions Addressed in this Report

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

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

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

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

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

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