

# Global Vanadium Oxide Uncooled Infrared Detector Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Vanadium Oxide Uncooled Infrared Detector market size is expected to reach \$ 1318 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

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.

This report studies the global Vanadium Oxide Uncooled Infrared Detector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vanadium Oxide Uncooled Infrared Detector and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vanadium Oxide Uncooled Infrared Detector that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Vanadium Oxide Uncooled Infrared Detector total production and demand, 2021-2032, (K Units)

Global Vanadium Oxide Uncooled Infrared Detector total production value, 2021-2032, (USD Million)

Global Vanadium Oxide Uncooled Infrared Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Vanadium Oxide Uncooled Infrared Detector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Vanadium Oxide Uncooled Infrared Detector domestic production, consumption, key domestic manufacturers and share

Global Vanadium Oxide Uncooled Infrared Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Vanadium Oxide Uncooled Infrared Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Vanadium Oxide Uncooled Infrared Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vanadium Oxide Uncooled Infrared Detector market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Global Sensor Technology, SYTO PHOTONICS, VIGO System SA, FLIR, Lynred, BAE, L-3, DRS, Raytheon, SCD, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vanadium Oxide Uncooled Infrared Detector market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Vanadium Oxide Uncooled Infrared Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Vanadium Oxide Uncooled Infrared Detector Market, Segmentation by Type:

Metal Packaging

Ceramic Packaging

Wafer-Level Packaging

## Global Vanadium Oxide Uncooled Infrared Detector Market, Segmentation by Pixel Size:

Large Pixel Size

Medium Pixel Size

Small Pixel Size

## Global Vanadium Oxide Uncooled Infrared Detector Market, Segmentation by Operating Band:

Long-wave Infrared

Mid-wave Infrared

## Global Vanadium Oxide Uncooled Infrared Detector Market, Segmentation by Application:

Civilian

Military

## Companies Profiled:

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 Answered:**

1. How big is the global Vanadium Oxide Uncooled Infrared Detector market?
2. What is the demand of the global Vanadium Oxide Uncooled Infrared Detector market?
3. What is the year over year growth of the global Vanadium Oxide Uncooled Infrared Detector market?
4. What is the production and production value of the global Vanadium Oxide Uncooled Infrared Detector market?
5. Who are the key producers in the global Vanadium Oxide Uncooled Infrared Detector market?
6. What are the growth factors driving the market demand?

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