

Global Vanadium Oxide Uncooled Infrared Detector Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Vanadium Oxide Uncooled Infrared Detector market size was valued at US\$ 932 million in 2025 and is forecast to a readjusted size of US\$ 1318 million by 2032 with a CAGR of 5.1% during review period.

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 (VO₂) 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 VO₂ 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 (VO₂) uncooled infrared detector market is experiencing rapid growth, benefiting from the high sensitivity and low power consumption advantages of VO₂'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 is a detailed and comprehensive analysis for global Vanadium Oxide Uncooled Infrared Detector market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Vanadium Oxide Uncooled Infrared Detector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Vanadium Oxide Uncooled Infrared Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Vanadium Oxide Uncooled Infrared Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Vanadium Oxide Uncooled Infrared Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Vanadium Oxide Uncooled Infrared Detector
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Vanadium Oxide Uncooled Infrared Detector market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Vanadium Oxide Uncooled Infrared Detector market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Metal Packaging

Ceramic Packaging

Wafer-Level Packaging

Market segment by Pixel Size

Large Pixel Size

Medium Pixel Size

Small Pixel Size

Market segment by Operating Band

Long-wave Infrared

Mid-wave Infrared

Market segment by Application

Civilian

Military

Major players covered

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

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Vanadium Oxide Uncooled Infrared Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Vanadium Oxide Uncooled Infrared Detector, with price, sales quantity, revenue, and global market share of Vanadium Oxide Uncooled Infrared Detector from 2021 to 2026.

Chapter 3, the Vanadium Oxide Uncooled Infrared Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Vanadium Oxide Uncooled Infrared Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Vanadium Oxide Uncooled Infrared Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Vanadium Oxide Uncooled Infrared Detector.

Chapter 14 and 15, to describe Vanadium Oxide Uncooled Infrared Detector sales channel, distributors, customers, research findings and conclusion.

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