

Global Vanadium Oxide Infrared Detectors Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Vanadium Oxide Infrared Detectors market size will reach 1,755.18 Million USD in 2025 and is projected to reach 2,206.04 Million USD by 2032, with a CAGR of 3.32% (2025-2032). Notably, the China Vanadium Oxide Infrared Detectors market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

Vanadium oxide infrared (VOIR) detectors are a type of thermal infrared sensor that use vanadium oxide as the sensing material to detect infrared radiation, primarily in the mid-to far-infrared spectrum. These detectors rely on the unique property of vanadium oxide, which undergoes a change in its electrical resistance when exposed to infrared radiation, allowing it to detect temperature variations and thermal emissions from objects. VOIR detectors are widely used in applications such as thermal imaging, surveillance, and industrial temperature monitoring due to their high sensitivity, fast response times, and compact size. They are particularly valuable in detecting heat signatures and enabling non-contact temperature measurement in a variety of environments.

The major global manufacturers of Vanadium Oxide Infrared Detectors include 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, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Vanadium Oxide Infrared Detectors. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Vanadium Oxide Infrared Detectors market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Vanadium Oxide Infrared Detectors market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Vanadium Oxide Infrared Detectors industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Vanadium Oxide Infrared Detectors Include:

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

Vanadium Oxide Infrared Detectors Product Segment Include:

Metal Packaging

Ceramic Packaging

Wafer Level Packaging

Vanadium Oxide Infrared Detectors Product Application Include:

Civilian

Military

Chapter Scope

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global Vanadium Oxide Infrared Detectors Industry PESTEL Analysis

Chapter 3: Global Vanadium Oxide Infrared Detectors Industry Porter's Five Forces Analysis

Chapter 4: Global Vanadium Oxide Infrared Detectors Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global Vanadium Oxide Infrared Detectors Market Size and Forecast by Type and Application Analysis

Chapter 6: North America Vanadium Oxide Infrared Detectors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe Vanadium Oxide Infrared Detectors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China Vanadium Oxide Infrared Detectors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) Vanadium Oxide Infrared Detectors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America Vanadium Oxide Infrared Detectors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa Vanadium Oxide Infrared Detectors Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global Vanadium Oxide Infrared Detectors Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

Contents

1 VANADIUM OXIDE INFRARED DETECTORS MARKET OVERVIEW

- 1.1 Product Definition and Statistical Scope
- 1.2 Vanadium Oxide Infrared Detectors Product by Type
 - 1.2.1 Metal Packaging
 - 1.2.2 Ceramic Packaging
 - 1.2.3 Wafer Level Packaging
- 1.3 Vanadium Oxide Infrared Detectors Product by Application
 - 1.3.1 Civilian
 - 1.3.2 Military
- 1.4 Global Vanadium Oxide Infrared Detectors Market Revenue and Sales Analysis
 - 1.4.1 Global Vanadium Oxide Infrared Detectors Revenue Market Size Analysis (2020-2032)
 - 1.4.2 Global Vanadium Oxide Infrared Detectors Sales Market Size Analysis (2020-2032)
 - 1.4.3 Global Vanadium Oxide Infrared Detectors Market Sales Price Trend Analysis (2020-2032)
- 1.5 Vanadium Oxide Infrared Detectors Industry Trends and Innovation
 - 1.5.1 Vanadium Oxide Infrared Detectors Industry Trends and Innovation
 - 1.5.2 Vanadium Oxide Infrared Detectors Market Drivers and Challenges

2 VANADIUM OXIDE INFRARED DETECTORS MARKET PESTEL ANALYSIS

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

3 VANADIUM OXIDE INFRARED DETECTORS MARKET PORTER'S FIVE FORCES ANALYSIS

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers

3.5 Threat of Substitutes

4 GLOBAL VANADIUM OXIDE INFRARED DETECTORS MARKET ANALYSIS BY REGIONS

4.1 Vanadium Oxide Infrared Detectors Overall Market: 2024 VS 2025 VS 2032

4.2 Global Vanadium Oxide Infrared Detectors Revenue and Forecast Analysis (2020-2032)

4.2.1 Global Vanadium Oxide Infrared Detectors Revenue and Market Share by Region (2020-2025)

4.2.2 Global Vanadium Oxide Infrared Detectors Revenue and Market Share Forecast by Region (2026-2032)

4.3 Global Vanadium Oxide Infrared Detectors Sales and Forecast Analysis (2020-2032)

4.3.1 Global Vanadium Oxide Infrared Detectors Sales and Market Share by Region (2020-2025)

4.3.2 Global Vanadium Oxide Infrared Detectors Sales and Market Share Forecast by Region (2026-2032)

4.4 Global Vanadium Oxide Infrared Detectors Sales Price Trend Analysis (2020-2032)

5 GLOBAL VANADIUM OXIDE INFRARED DETECTORS MARKET SIZE BY TYPE AND APPLICATION

5.1 Global Vanadium Oxide Infrared Detectors Market Size by Type

5.1.1 Global Vanadium Oxide Infrared Detectors Revenue and Forecast Analysis by Type (2020-2032)

5.1.2 Global Vanadium Oxide Infrared Detectors Sales and Forecast Analysis by Type (2020-2032)

5.2 Global Vanadium Oxide Infrared Detectors Market Size by Application

5.2.1 Global Vanadium Oxide Infrared Detectors Revenue and Forecast Analysis by Application (2020-2032)

5.2.2 Global Vanadium Oxide Infrared Detectors Sales and Forecast Analysis by Application (2020-2032)

6 NORTH AMERICA

6.1 North America Vanadium Oxide Infrared Detectors Market Size and Growth Rate Analysis (2020-2032)

6.2 North America Key Manufacturers Analysis

- 6.3 North America Vanadium Oxide Infrared Detectors Market Size by Type
 - 6.3.1 North America Vanadium Oxide Infrared Detectors Sales by Type (2020-2032)
 - 6.3.2 North America Vanadium Oxide Infrared Detectors Revenue by Type (2020-2032)
- 6.4 North America Vanadium Oxide Infrared Detectors Market Size by Application
 - 6.4.1 North America Vanadium Oxide Infrared Detectors Sales by Application (2020-2032)
 - 6.4.2 North America Vanadium Oxide Infrared Detectors Revenue by Application (2020-2032)
- 6.5 North America Vanadium Oxide Infrared Detectors Market Size by Country
 - 6.5.1 US
 - 6.5.2 Canada

7 EUROPE

- 7.1 Europe Vanadium Oxide Infrared Detectors Market Size and Growth Rate Analysis (2020-2032)
- 7.2 Europe Key Manufacturers Analysis
- 7.3 Europe Vanadium Oxide Infrared Detectors Market Size by Type
 - 7.3.1 Europe Vanadium Oxide Infrared Detectors Sales by Type (2020-2032)
 - 7.3.2 Europe Vanadium Oxide Infrared Detectors Revenue by Type (2020-2032)
- 7.4 Europe Vanadium Oxide Infrared Detectors Market Size by Application
 - 7.4.1 Europe Vanadium Oxide Infrared Detectors Sales by Application (2020-2032)
 - 7.4.2 Europe Vanadium Oxide Infrared Detectors Revenue by Application (2020-2032)
- 7.5 Europe Vanadium Oxide Infrared Detectors Market Size by Country
 - 7.5.1 Germany
 - 7.5.2 France
 - 7.5.3 United Kingdom
 - 7.5.4 Italy
 - 7.5.5 Spain
 - 7.5.6 Benelux

8 CHINA

- 8.1 China Vanadium Oxide Infrared Detectors Market Size and Growth Rate Analysis (2020-2032)
- 8.2 China Key Manufacturers Analysis
- 8.3 China Vanadium Oxide Infrared Detectors Market Size by Type
 - 8.3.1 China Vanadium Oxide Infrared Detectors Sales by Type (2020-2032)

- 8.3.2 China Vanadium Oxide Infrared Detectors Revenue by Type (2020-2032)
- 8.4 China Vanadium Oxide Infrared Detectors Market Size by Application
 - 8.4.1 China Vanadium Oxide Infrared Detectors Sales by Application (2020-2032)
 - 8.4.2 China Vanadium Oxide Infrared Detectors Revenue by Application (2020-2032)

9 APAC (EXCL. CHINA)

- 9.1 APAC (excl. China) Vanadium Oxide Infrared Detectors Market Size and Growth Rate Analysis (2020-2032)
- 9.2 APAC (excl. China) Key Manufacturers Analysis
- 9.3 APAC (excl. China) Vanadium Oxide Infrared Detectors Market Size by Type
 - 9.3.1 APAC (excl. China) Vanadium Oxide Infrared Detectors Sales by Type (2020-2032)
 - 9.3.2 APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) Vanadium Oxide Infrared Detectors Market Size by Application
 - 9.4.1 APAC (excl. China) Vanadium Oxide Infrared Detectors Sales by Application (2020-2032)
 - 9.4.2 APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue by Application (2020-2032)
- 9.5 APAC (excl. China) Vanadium Oxide Infrared Detectors Market Size by Country
 - 9.5.1 Japan
 - 9.5.2 South Korea
 - 9.5.3 India
 - 9.5.4 Australia
 - 9.5.5 Southeast Asia

10 LATIN AMERICA

- 10.1 Latin America Vanadium Oxide Infrared Detectors Market Size and Growth Rate Analysis (2020-2032)
- 10.2 Latin America Key Manufacturers Analysis
- 10.3 Latin America Vanadium Oxide Infrared Detectors Market Size by Type
 - 10.3.1 Latin America Vanadium Oxide Infrared Detectors Sales by Type (2020-2032)
 - 10.3.2 Latin America Vanadium Oxide Infrared Detectors Revenue by Type (2020-2032)
- 10.4 Latin America Vanadium Oxide Infrared Detectors Market Size by Application
 - 10.4.1 Latin America Vanadium Oxide Infrared Detectors Sales by Application (2020-2032)

10.4.2 Latin America Vanadium Oxide Infrared Detectors Revenue by Application (2020-2032)

10.5 Latin America Vanadium Oxide Infrared Detectors Market Size by Country

10.6 Latin America Vanadium Oxide Infrared Detectors Market Size by Country

10.6.1 Mexico

10.6.2 Brazil

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Vanadium Oxide Infrared Detectors Market Size and Growth Rate Analysis (2020-2032)

11.2 Middle East & Africa Key Manufacturers Analysis

11.3 Middle East & Africa Vanadium Oxide Infrared Detectors Market Size by Type

11.3.1 Middle East & Africa Vanadium Oxide Infrared Detectors Sales by Type (2020-2032)

11.3.2 Middle East & Africa Vanadium Oxide Infrared Detectors Revenue by Type (2020-2032)

11.4 Middle East & Africa Vanadium Oxide Infrared Detectors Market Size by Application

11.4.1 Middle East & Africa Vanadium Oxide Infrared Detectors Sales by Application (2020-2032)

11.4.2 Middle East & Africa Vanadium Oxide Infrared Detectors Revenue by Application (2020-2032)

11.5 Middle East Vanadium Oxide Infrared Detectors Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

12 COMPETITION BY MANUFACTURERS

12.1 Global Vanadium Oxide Infrared Detectors Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global Vanadium Oxide Infrared Detectors Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global Vanadium Oxide Infrared Detectors Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global Vanadium Oxide Infrared Detectors Average Sales Price by Manufacturers (2021-2025)

12.2 Vanadium Oxide Infrared Detectors Competitive Landscape Analysis and Market Dynamic

- 12.2.1 Vanadium Oxide Infrared Detectors Competitive Landscape Analysis
- 12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales
- 12.2.3 Market Dynamic

13 KEY COMPANIES ANALYSIS

13.1 Teledyne FLIR

13.1.1 Teledyne FLIR Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Teledyne FLIR Vanadium Oxide Infrared Detectors Product Portfolio

13.1.3 Teledyne FLIR Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 Raytron Technology

13.2.1 Raytron Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 Raytron Technology Vanadium Oxide Infrared Detectors Product Portfolio

13.2.3 Raytron Technology Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 HIKMICRO

13.3.1 HIKMICRO Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 HIKMICRO Vanadium Oxide Infrared Detectors Product Portfolio

13.3.3 HIKMICRO Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.4 Wuhan Guide Infrared

13.4.1 Wuhan Guide Infrared Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Wuhan Guide Infrared Vanadium Oxide Infrared Detectors Product Portfolio

13.4.3 Wuhan Guide Infrared Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.5 BAE Systems

13.5.1 BAE Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 BAE Systems Vanadium Oxide Infrared Detectors Product Portfolio

13.5.3 BAE Systems Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.6 Leonardo DRS

13.6.1 Leonardo DRS Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

- 13.6.2 Leonardo DRS Vanadium Oxide Infrared Detectors Product Portfolio
- 13.6.3 Leonardo DRS Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.7 Semi Conductor Devices (SCD)
 - 13.7.1 Semi Conductor Devices (SCD) Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
 - 13.7.2 Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors Product Portfolio
 - 13.7.3 Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.8 NEC
 - 13.8.1 NEC Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
 - 13.8.2 NEC Vanadium Oxide Infrared Detectors Product Portfolio
 - 13.8.3 NEC Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.9 L3Harris Technologies, Inc.
 - 13.9.1 L3Harris Technologies, Inc. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
 - 13.9.2 L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors Product Portfolio
 - 13.9.3 L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.10 Zhejiang Dali Technology
 - 13.10.1 Zhejiang Dali Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
 - 13.10.2 Zhejiang Dali Technology Vanadium Oxide Infrared Detectors Product Portfolio
 - 13.10.3 Zhejiang Dali Technology Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.11 North Guangwei Technology
 - 13.11.1 North Guangwei Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)
 - 13.11.2 North Guangwei Technology Vanadium Oxide Infrared Detectors Product Portfolio
 - 13.11.3 North Guangwei Technology Vanadium Oxide Infrared Detectors Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)
- 13.12 Beijing Fjr Optoelectronic Technology
 - 13.12.1 Beijing Fjr Optoelectronic Technology Basic Company Profile (Employees,

Areas Service, Competitors and Contact Information)

13.12.2 Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors
Product Portfolio

13.12.3 Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors
Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share)
(2021-2025)

14 INDUSTRY CHAIN ANALYSIS

14.1 Vanadium Oxide Infrared Detectors Industry Chain Analysis

14.2 Vanadium Oxide Infrared Detectors Industry Raw Material and Suppliers Analysis

14.2.1 Vanadium Oxide Infrared Detectors Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 Vanadium Oxide Infrared Detectors Typical Downstream Customers

14.4 Vanadium Oxide Infrared Detectors Sales Channel Analysis

15 RESEARCH FINDINGS AND CONCLUSION

16 METHODOLOGY AND DATA SOURCE

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1: Global Vanadium Oxide Infrared Detectors Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global Vanadium Oxide Infrared Detectors Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: Vanadium Oxide Infrared Detectors Industry Development Status

Table 4: Vanadium Oxide Infrared Detectors Industry Development Trends

Table 5: Global Vanadium Oxide Infrared Detectors Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global Vanadium Oxide Infrared Detectors Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global Vanadium Oxide Infrared Detectors Revenue Market Share by Region (2020-2025)

Table 8: Global Vanadium Oxide Infrared Detectors Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global Vanadium Oxide Infrared Detectors Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global Vanadium Oxide Infrared Detectors Sales by Region (2020-2025) & (K Units)

Table 11: Global Vanadium Oxide Infrared Detectors Sales Market Share by Region (2020-2025)

Table 12: Global Vanadium Oxide Infrared Detectors Sales Forecast by Region (2026-2032) & (K Units)

Table 13: Global Vanadium Oxide Infrared Detectors Sales Market Share Forecast by Region (2026-2032)

Table 14: Global Vanadium Oxide Infrared Detectors Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global Vanadium Oxide Infrared Detectors Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global Vanadium Oxide Infrared Detectors Sales Analysis by Type (2020-2025) & (K Units)

Table 17: Global Vanadium Oxide Infrared Detectors Sales Analysis Forecast by Type (2026-2032) & (K Units)

Table 18: Global Vanadium Oxide Infrared Detectors Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global Vanadium Oxide Infrared Detectors Revenue Analysis Forecast by

Application (2026-2032) & (US\$ Million)

Table 20: Global Vanadium Oxide Infrared Detectors Sales Analysis by Application (2020-2025) & (K Units)

Table 21: Global Vanadium Oxide Infrared Detectors Sales Analysis Forecast by Application (2026-2032) & (K Units)

Table 22: Key Vanadium Oxide Infrared Detectors Players in North America

Table 23: North America Vanadium Oxide Infrared Detectors Sales by Type (2020-2025) & (K Units)

Table 24: North America Vanadium Oxide Infrared Detectors Sales by Type (2026-2032) & (K Units)

Table 25: North America Vanadium Oxide Infrared Detectors Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America Vanadium Oxide Infrared Detectors Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America Vanadium Oxide Infrared Detectors Sales by Application (2020-2025) & (K Units)

Table 28: North America Vanadium Oxide Infrared Detectors Sales by Application (2026-2032) & (K Units)

Table 29: North America Vanadium Oxide Infrared Detectors Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America Vanadium Oxide Infrared Detectors Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America Vanadium Oxide Infrared Detectors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America Vanadium Oxide Infrared Detectors Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America Vanadium Oxide Infrared Detectors Sales Market Size by Country (2020-2025) & (K Units)

Table 34: North America Vanadium Oxide Infrared Detectors Sales Market Size by Country (2026-2032) & (K Units)

Table 35: Key Vanadium Oxide Infrared Detectors Players in Europe

Table 36: Europe Vanadium Oxide Infrared Detectors Sales by Type (2020-2025) & (K Units)

Table 37: Europe Vanadium Oxide Infrared Detectors Sales by Type (2026-2032) & (K Units)

Table 38: Europe Vanadium Oxide Infrared Detectors Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe Vanadium Oxide Infrared Detectors Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe Vanadium Oxide Infrared Detectors Sales by Application (2020-2025) & (K Units)

Table 41: Europe Vanadium Oxide Infrared Detectors Sales by Application (2026-2032) & (K Units)

Table 42: Europe Vanadium Oxide Infrared Detectors Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe Vanadium Oxide Infrared Detectors Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe Vanadium Oxide Infrared Detectors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe Vanadium Oxide Infrared Detectors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe Vanadium Oxide Infrared Detectors Sales Market Size by Country (2020-2025) & (K Units)

Table 47: Europe Vanadium Oxide Infrared Detectors Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 48: Key Vanadium Oxide Infrared Detectors Players in China

Table 49: China Vanadium Oxide Infrared Detectors Sales by Type (2020-2025) & (K Units)

Table 50: China Vanadium Oxide Infrared Detectors Sales by Type (2026-2032) & (K Units)

Table 51: China Vanadium Oxide Infrared Detectors Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China Vanadium Oxide Infrared Detectors Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China Vanadium Oxide Infrared Detectors Sales by Application (2020-2025) & (K Units)

Table 54: China Vanadium Oxide Infrared Detectors Sales by Application (2026-2032) & (K Units)

Table 55: China Vanadium Oxide Infrared Detectors Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China Vanadium Oxide Infrared Detectors Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key Vanadium Oxide Infrared Detectors Players in APAC (excl. China)

Table 58: APAC (excl. China) Vanadium Oxide Infrared Detectors Sales by Type (2020-2025) & (K Units)

Table 59: APAC (excl. China) Vanadium Oxide Infrared Detectors Sales by Type (2026-2032) & (K Units)

Table 60: APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue by Type

(2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) Vanadium Oxide Infrared Detectors Sales by Application (2020-2025) & (K Units)

Table 63: APAC (excl. China) Vanadium Oxide Infrared Detectors Sales by Application (2026-2032) & (K Units)

Table 64: APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue by Application (2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) Vanadium Oxide Infrared Detectors Sales Market Size by Country (2020-2025) & (K Units)

Table 69: APAC (excl. China) Vanadium Oxide Infrared Detectors Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 70: Key Vanadium Oxide Infrared Detectors Players in Latin America

Table 71: Latin America Vanadium Oxide Infrared Detectors Sales by Type (2020-2025) & (K Units)

Table 72: Latin America Vanadium Oxide Infrared Detectors Sales by Type (2026-2032) & (K Units)

Table 73: Latin America Vanadium Oxide Infrared Detectors Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America Vanadium Oxide Infrared Detectors Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America Vanadium Oxide Infrared Detectors Sales by Application (2020-2025) & (K Units)

Table 76: Latin America Vanadium Oxide Infrared Detectors Sales by Application (2026-2032) & (K Units)

Table 77: Latin America Vanadium Oxide Infrared Detectors Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America Vanadium Oxide Infrared Detectors Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America Vanadium Oxide Infrared Detectors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America Vanadium Oxide Infrared Detectors Revenue Market Size

Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America Vanadium Oxide Infrared Detectors Sales Market Size by Country (2020-2025) & (K Units)

Table 82: Latin America Vanadium Oxide Infrared Detectors Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 83: Key Vanadium Oxide Infrared Detectors Players in Middle East & Africa

Table 84: Middle East & Africa Vanadium Oxide Infrared Detectors Sales by Type (2020-2025) & (K Units)

Table 85: Middle East & Africa Vanadium Oxide Infrared Detectors Sales by Type (2026-2032) & (K Units)

Table 86: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa Vanadium Oxide Infrared Detectors Sales by Application (2020-2025) & (K Units)

Table 89: Middle East & Africa Vanadium Oxide Infrared Detectors Sales by Application (2026-2032) & (K Units)

Table 90: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa Vanadium Oxide Infrared Detectors Sales Market Size by Country (2020-2025) & (K Units)

Table 95: Middle East & Africa Vanadium Oxide Infrared Detectors Sales Market Size Forecast by Country (2026-2032) & (K Units)

Table 96: Global Vanadium Oxide Infrared Detectors Market Sales by Key Manufacturers (2021-2025) & (K Units)

Table 97: Global Vanadium Oxide Infrared Detectors Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global Vanadium Oxide Infrared Detectors Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global Vanadium Oxide Infrared Detectors Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: Teledyne FLIR Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: Teledyne FLIR Vanadium Oxide Infrared Detectors Product Portfolio

Table 105: Teledyne FLIR Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 106: Raytron Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: Raytron Technology Vanadium Oxide Infrared Detectors Product Portfolio

Table 108: Raytron Technology Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: HIKMICRO Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: HIKMICRO Vanadium Oxide Infrared Detectors Product Portfolio

Table 111: HIKMICRO Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: Wuhan Guide Infrared Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 113: Wuhan Guide Infrared Vanadium Oxide Infrared Detectors Product Portfolio

Table 114: Wuhan Guide Infrared Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: BAE Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: BAE Systems Vanadium Oxide Infrared Detectors Product Portfolio

Table 117: BAE Systems Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: Leonardo DRS Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Leonardo DRS Vanadium Oxide Infrared Detectors Product Portfolio

Table 120: Leonardo DRS Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Semi Conductor Devices (SCD) Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors Product Portfolio

Table 123: Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 124: NEC Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: NEC Vanadium Oxide Infrared Detectors Product Portfolio

Table 126: NEC Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: L3Harris Technologies, Inc. Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors Product Portfolio

Table 129: L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: Zhejiang Dali Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: Zhejiang Dali Technology Vanadium Oxide Infrared Detectors Product Portfolio

Table 132: Zhejiang Dali Technology Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: North Guangwei Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: North Guangwei Technology Vanadium Oxide Infrared Detectors Product Portfolio

Table 135: North Guangwei Technology Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 136: Beijing Fjr Optoelectronic Technology Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 137: Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors Product Portfolio

Table 138: Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors Revenue (US\$ Million), Sales (K Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 139: Upstream Key Raw Material Price List

Table 140: Vanadium Oxide Infrared Detectors Raw Material Suppliers and Contact Information

Table 141: Vanadium Oxide Infrared Detectors Typical Customer List

Table 142: Vanadium Oxide Infrared Detectors Distributors List

List Of Figures

LIST OF FIGURES

Figure 1: Vanadium Oxide Infrared Detectors Product Pictures

Figure 2: Metal Packaging Picture Scope

Figure 3: Ceramic Packaging Picture Scope

Figure 4: Wafer Level Packaging Picture Scope

Figure 5: Civilian Picture Scope

Figure 6: Military Picture Scope

Figure 7: Global Vanadium Oxide Infrared Detectors Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 8: Global Vanadium Oxide Infrared Detectors Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 9: Global Vanadium Oxide Infrared Detectors Market Sales and Growth Rate Analysis (2020-2032) & (K Units)

Figure 10: Global Vanadium Oxide Infrared Detectors Market Price Trend Analysis (2020-2032) & (USD/Unit)

Figure 11: Global Vanadium Oxide Infrared Detectors Market Size by Region (2020-2032) & (US\$ Million)

Figure 12: Global Vanadium Oxide Infrared Detectors Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 13: Global Vanadium Oxide Infrared Detectors Sales Price by Region (2020-2032) & (K Units)

Figure 14: North America Vanadium Oxide Infrared Detectors Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 15: North America Vanadium Oxide Infrared Detectors Revenue Market Share by Players in 2024

Figure 16: North America Vanadium Oxide Infrared Detectors Sales Market Share by Type (2020-2032)

Figure 17: North America Vanadium Oxide Infrared Detectors Revenue Market Share by Type (2020-2032)

Figure 18: North America Vanadium Oxide Infrared Detectors Sales Market Share by Application (2020-2032)

Figure 19: North America Vanadium Oxide Infrared Detectors Revenue Market Share by Application (2020-2032)

Figure 20: US Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 21: Canada Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 22:Europe Vanadium Oxide Infrared Detectors Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 23:Europe Vanadium Oxide Infrared Detectors Revenue Market Share by Players in 2024

Figure 24:Europe Vanadium Oxide Infrared Detectors Sales Market Share by Type (2020-2032)

Figure 25:Europe Vanadium Oxide Infrared Detectors Revenue Market Share by Type (2020-2032)

Figure 26:Europe Vanadium Oxide Infrared Detectors Sales Market Share by Application (2020-2032)

Figure 27:Europe Vanadium Oxide Infrared Detectors Revenue Market Share by Application (2020-2032)

Figure 28:Germany Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 29:France Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 30:United Kingdom Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 31:Italy Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 32:Spain Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 33:Benelux Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 34:China Vanadium Oxide Infrared Detectors Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 35:China Vanadium Oxide Infrared Detectors Revenue Market Share by Players in 2024

Figure 36:China Vanadium Oxide Infrared Detectors Sales Market Share by Type (2020-2032)

Figure 37:China Vanadium Oxide Infrared Detectors Revenue Market Share by Type (2020-2032)

Figure 38:China Vanadium Oxide Infrared Detectors Sales Market Share by Application (2020-2032)

Figure 39:China Vanadium Oxide Infrared Detectors Revenue Market Share by Application (2020-2032)

Figure 40:APAC (excl. China) Vanadium Oxide Infrared Detectors Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 41:APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue Market

Share by Players in 2024

Figure 42:APAC (excl. China) Vanadium Oxide Infrared Detectors Sales Market Share by Type (2020-2032)

Figure 43:APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue Market Share by Type (2020-2032)

Figure 44:APAC (excl. China) Vanadium Oxide Infrared Detectors Sales Market Share by Application (2020-2032)

Figure 45:APAC (excl. China) Vanadium Oxide Infrared Detectors Revenue Market Share by Application (2020-2032)

Figure 46:Japan Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 47:South Korea Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 48:India Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 49:Australia Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 50:Southeast Asia Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 51:Latin America Vanadium Oxide Infrared Detectors Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 52:Latin America Vanadium Oxide Infrared Detectors Revenue Market Share by Players in 2024

Figure 53:Latin America Vanadium Oxide Infrared Detectors Sales Market Share by Type (2020-2032)

Figure 54:Latin America Vanadium Oxide Infrared Detectors Revenue Market Share by Type (2020-2032)

Figure 55:Latin America Vanadium Oxide Infrared Detectors Sales Market Share by Application (2020-2032)

Figure 56:Latin America Vanadium Oxide Infrared Detectors Revenue Market Share by Application (2020-2032)

Figure 57:Mexico Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 58:Brazil Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 59:Middle East & Africa Vanadium Oxide Infrared Detectors Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 60:Middle East & Africa Vanadium Oxide Infrared Detectors Revenue Market Share by Players in 2024

Figure 61: Middle East & Africa Vanadium Oxide Infrared Detectors Sales Market Share by Type (2020-2032)

Figure 62: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue Market Share by Type (2020-2032)

Figure 63: Middle East & Africa Vanadium Oxide Infrared Detectors Sales Market Share by Application (2020-2032)

Figure 64: Middle East & Africa Vanadium Oxide Infrared Detectors Revenue Market Share by Application (2020-2032)

Figure 65: Saudi Arabia Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 66: South Africa Vanadium Oxide Infrared Detectors Revenue (2020-2032) & (US\$ Million)

Figure 67: Global Vanadium Oxide Infrared Detectors Sales Market Share by Key Manufacturers in 2024

Figure 68: Global Vanadium Oxide Infrared Detectors Revenue Market Share by Key Manufacturers in 2024

Figure 69: Global Vanadium Oxide Infrared Detectors Industry Competition Landscape

Figure 70: Vanadium Oxide Infrared Detectors Industry Chain Analysis

Figure 71: Bottom-Up and Top-Down Research Methods

Figure 72: Key Interview Objectives

Figure 73: Data Cross Validation

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