

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

<https://marketpublishers.com/r/GC3B7B713E79EN.html>

Date: June 2024

Pages: 109

Price: US\$ 3,660.00 (Single User License)

ID: GC3B7B713E79EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

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) 's 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?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Vanadium Oxide Infrared Detectors for Civilian Annual Sales 2019-2030
 - 2.1.2 World Current & Future Analysis for Vanadium Oxide Infrared Detectors for Civilian by Geographic Region, 2019, 2023 & 2030
 - 2.1.3 World Current & Future Analysis for Vanadium Oxide Infrared Detectors for Civilian by Country/Region, 2019, 2023 & 2030
- 2.2 Vanadium Oxide Infrared Detectors for Civilian Segment by Type
 - 2.2.1 Wafer Level Packaging
 - 2.2.2 Metal Packaging
 - 2.2.3 Ceramic Packaging
- 2.3 Vanadium Oxide Infrared Detectors for Civilian Sales by Type
 - 2.3.1 Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type (2019-2024)
 - 2.3.2 Global Vanadium Oxide Infrared Detectors for Civilian Revenue and Market Share by Type (2019-2024)
 - 2.3.3 Global Vanadium Oxide Infrared Detectors for Civilian Sale Price by Type (2019-2024)
- 2.4 Vanadium Oxide Infrared Detectors for Civilian Segment by Application
 - 2.4.1 Business and Public Services
 - 2.4.2 Industrial
 - 2.4.3 Household Fields
 - 2.4.4 Automotive Fields
 - 2.4.5 Others
- 2.5 Vanadium Oxide Infrared Detectors for Civilian Sales by Application

2.5.1 Global Vanadium Oxide Infrared Detectors for Civilian Sale Market Share by Application (2019-2024)

2.5.2 Global Vanadium Oxide Infrared Detectors for Civilian Revenue and Market Share by Application (2019-2024)

2.5.3 Global Vanadium Oxide Infrared Detectors for Civilian Sale Price by Application (2019-2024)

3 GLOBAL BY COMPANY

3.1 Global Vanadium Oxide Infrared Detectors for Civilian Breakdown Data by Company

3.1.1 Global Vanadium Oxide Infrared Detectors for Civilian Annual Sales by Company (2019-2024)

3.1.2 Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Company (2019-2024)

3.2 Global Vanadium Oxide Infrared Detectors for Civilian Annual Revenue by Company (2019-2024)

3.2.1 Global Vanadium Oxide Infrared Detectors for Civilian Revenue by Company (2019-2024)

3.2.2 Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Company (2019-2024)

3.3 Global Vanadium Oxide Infrared Detectors for Civilian Sale Price by Company

3.4 Key Manufacturers Vanadium Oxide Infrared Detectors for Civilian Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Vanadium Oxide Infrared Detectors for Civilian Product Location Distribution

3.4.2 Players Vanadium Oxide Infrared Detectors for Civilian Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR VANADIUM OXIDE INFRARED DETECTORS FOR CIVILIAN BY GEOGRAPHIC REGION

4.1 World Historic Vanadium Oxide Infrared Detectors for Civilian Market Size by Geographic Region (2019-2024)

4.1.1 Global Vanadium Oxide Infrared Detectors for Civilian Annual Sales by

Geographic Region (2019-2024)

4.1.2 Global Vanadium Oxide Infrared Detectors for Civilian Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic Vanadium Oxide Infrared Detectors for Civilian Market Size by Country/Region (2019-2024)

4.2.1 Global Vanadium Oxide Infrared Detectors for Civilian Annual Sales by Country/Region (2019-2024)

4.2.2 Global Vanadium Oxide Infrared Detectors for Civilian Annual Revenue by Country/Region (2019-2024)

4.3 Americas Vanadium Oxide Infrared Detectors for Civilian Sales Growth

4.4 APAC Vanadium Oxide Infrared Detectors for Civilian Sales Growth

4.5 Europe Vanadium Oxide Infrared Detectors for Civilian Sales Growth

4.6 Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales Growth

5 AMERICAS

5.1 Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Country

5.1.1 Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Country (2019-2024)

5.1.2 Americas Vanadium Oxide Infrared Detectors for Civilian Revenue by Country (2019-2024)

5.2 Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024)

5.3 Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Application (2019-2024)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Region

6.1.1 APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Region (2019-2024)

6.1.2 APAC Vanadium Oxide Infrared Detectors for Civilian Revenue by Region (2019-2024)

6.2 APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024)

6.3 APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Application

(2019-2024)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Vanadium Oxide Infrared Detectors for Civilian by Country

7.1.1 Europe Vanadium Oxide Infrared Detectors for Civilian Sales by Country
(2019-2024)

7.1.2 Europe Vanadium Oxide Infrared Detectors for Civilian Revenue by Country
(2019-2024)

7.2 Europe Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024)

7.3 Europe Vanadium Oxide Infrared Detectors for Civilian Sales by Application
(2019-2024)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian by Country

8.1.1 Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales by
Country (2019-2024)

8.1.2 Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Revenue by
Country (2019-2024)

8.2 Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales by Type
(2019-2024)

8.3 Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales by
Application (2019-2024)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Vanadium Oxide Infrared Detectors for Civilian

10.3 Manufacturing Process Analysis of Vanadium Oxide Infrared Detectors for Civilian

10.4 Industry Chain Structure of Vanadium Oxide Infrared Detectors for Civilian

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Vanadium Oxide Infrared Detectors for Civilian Distributors

11.3 Vanadium Oxide Infrared Detectors for Civilian Customer

12 WORLD FORECAST REVIEW FOR VANADIUM OXIDE INFRARED DETECTORS FOR CIVILIAN BY GEOGRAPHIC REGION

12.1 Global Vanadium Oxide Infrared Detectors for Civilian Market Size Forecast by Region

12.1.1 Global Vanadium Oxide Infrared Detectors for Civilian Forecast by Region (2025-2030)

12.1.2 Global Vanadium Oxide Infrared Detectors for Civilian Annual Revenue Forecast by Region (2025-2030)

12.2 Americas Forecast by Country (2025-2030)

12.3 APAC Forecast by Region (2025-2030)

12.4 Europe Forecast by Country (2025-2030)

12.5 Middle East & Africa Forecast by Country (2025-2030)

12.6 Global Vanadium Oxide Infrared Detectors for Civilian Forecast by Type

(2025-2030)

12.7 Global Vanadium Oxide Infrared Detectors for Civilian Forecast by Application

(2025-2030)

13 KEY PLAYERS ANALYSIS

13.1 Teledyne FLIR

13.1.1 Teledyne FLIR Company Information

13.1.2 Teledyne FLIR Vanadium Oxide Infrared Detectors for Civilian Product

Portfolios and Specifications

13.1.3 Teledyne FLIR Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.1.4 Teledyne FLIR Main Business Overview

13.1.5 Teledyne FLIR Latest Developments

13.2 Raytron Technology

13.2.1 Raytron Technology Company Information

13.2.2 Raytron Technology Vanadium Oxide Infrared Detectors for Civilian Product

Portfolios and Specifications

13.2.3 Raytron Technology Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.2.4 Raytron Technology Main Business Overview

13.2.5 Raytron Technology Latest Developments

13.3 HIKMICRO

13.3.1 HIKMICRO Company Information

13.3.2 HIKMICRO Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

13.3.3 HIKMICRO Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.3.4 HIKMICRO Main Business Overview

13.3.5 HIKMICRO Latest Developments

13.4 Wuhan Guide Infrared

13.4.1 Wuhan Guide Infrared Company Information

13.4.2 Wuhan Guide Infrared Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

13.4.3 Wuhan Guide Infrared Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.4.4 Wuhan Guide Infrared Main Business Overview

13.4.5 Wuhan Guide Infrared Latest Developments

13.5 BAE Systems

- 13.5.1 BAE Systems Company Information
- 13.5.2 BAE Systems Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications
- 13.5.3 BAE Systems Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.5.4 BAE Systems Main Business Overview
- 13.5.5 BAE Systems Latest Developments
- 13.6 Leonardo DRS
 - 13.6.1 Leonardo DRS Company Information
 - 13.6.2 Leonardo DRS Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications
 - 13.6.3 Leonardo DRS Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.6.4 Leonardo DRS Main Business Overview
 - 13.6.5 Leonardo DRS Latest Developments
- 13.7 Semi Conductor Devices (SCD)
 - 13.7.1 Semi Conductor Devices (SCD) Company Information
 - 13.7.2 Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications
 - 13.7.3 Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.7.4 Semi Conductor Devices (SCD) Main Business Overview
 - 13.7.5 Semi Conductor Devices (SCD) Latest Developments
- 13.8 NEC
 - 13.8.1 NEC Company Information
 - 13.8.2 NEC Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications
 - 13.8.3 NEC Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.8.4 NEC Main Business Overview
 - 13.8.5 NEC Latest Developments
- 13.9 L3Harris Technologies, Inc.
 - 13.9.1 L3Harris Technologies, Inc. Company Information
 - 13.9.2 L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications
 - 13.9.3 L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)
 - 13.9.4 L3Harris Technologies, Inc. Main Business Overview
 - 13.9.5 L3Harris Technologies, Inc. Latest Developments

13.10 Zhejiang Dali Technology

13.10.1 Zhejiang Dali Technology Company Information

13.10.2 Zhejiang Dali Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

13.10.3 Zhejiang Dali Technology Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.10.4 Zhejiang Dali Technology Main Business Overview

13.10.5 Zhejiang Dali Technology Latest Developments

13.11 North Guangwei Technology

13.11.1 North Guangwei Technology Company Information

13.11.2 North Guangwei Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

13.11.3 North Guangwei Technology Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.11.4 North Guangwei Technology Main Business Overview

13.11.5 North Guangwei Technology Latest Developments

13.12 Beijing Fjr Optoelectronic Technology

13.12.1 Beijing Fjr Optoelectronic Technology Company Information

13.12.2 Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

13.12.3 Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors for Civilian Sales, Revenue, Price and Gross Margin (2019-2024)

13.12.4 Beijing Fjr Optoelectronic Technology Main Business Overview

13.12.5 Beijing Fjr Optoelectronic Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Vanadium Oxide Infrared Detectors for Civilian Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Vanadium Oxide Infrared Detectors for Civilian Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Wafer Level Packaging

Table 4. Major Players of Metal Packaging

Table 5. Major Players of Ceramic Packaging

Table 6. Global Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024) & (K Units)

Table 7. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type (2019-2024)

Table 8. Global Vanadium Oxide Infrared Detectors for Civilian Revenue by Type (2019-2024) & (\$ million)

Table 9. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Type (2019-2024)

Table 10. Global Vanadium Oxide Infrared Detectors for Civilian Sale Price by Type (2019-2024) & (US\$/Unit)

Table 11. Global Vanadium Oxide Infrared Detectors for Civilian Sale by Application (2019-2024) & (K Units)

Table 12. Global Vanadium Oxide Infrared Detectors for Civilian Sale Market Share by Application (2019-2024)

Table 13. Global Vanadium Oxide Infrared Detectors for Civilian Revenue by Application (2019-2024) & (\$ million)

Table 14. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Application (2019-2024)

Table 15. Global Vanadium Oxide Infrared Detectors for Civilian Sale Price by Application (2019-2024) & (US\$/Unit)

Table 16. Global Vanadium Oxide Infrared Detectors for Civilian Sales by Company (2019-2024) & (K Units)

Table 17. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Company (2019-2024)

Table 18. Global Vanadium Oxide Infrared Detectors for Civilian Revenue by Company (2019-2024) & (\$ millions)

Table 19. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Company (2019-2024)

Table 20. Global Vanadium Oxide Infrared Detectors for Civilian Sale Price by Company (2019-2024) & (US\$/Unit)

Table 21. Key Manufacturers Vanadium Oxide Infrared Detectors for Civilian Producing Area Distribution and Sales Area

Table 22. Players Vanadium Oxide Infrared Detectors for Civilian Products Offered

Table 23. Vanadium Oxide Infrared Detectors for Civilian Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Vanadium Oxide Infrared Detectors for Civilian Sales by Geographic Region (2019-2024) & (K Units)

Table 27. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share Geographic Region (2019-2024)

Table 28. Global Vanadium Oxide Infrared Detectors for Civilian Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 29. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Geographic Region (2019-2024)

Table 30. Global Vanadium Oxide Infrared Detectors for Civilian Sales by Country/Region (2019-2024) & (K Units)

Table 31. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country/Region (2019-2024)

Table 32. Global Vanadium Oxide Infrared Detectors for Civilian Revenue by Country/Region (2019-2024) & (\$ millions)

Table 33. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Country/Region (2019-2024)

Table 34. Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Country (2019-2024) & (K Units)

Table 35. Americas Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country (2019-2024)

Table 36. Americas Vanadium Oxide Infrared Detectors for Civilian Revenue by Country (2019-2024) & (\$ millions)

Table 37. Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024) & (K Units)

Table 38. Americas Vanadium Oxide Infrared Detectors for Civilian Sales by Application (2019-2024) & (K Units)

Table 39. APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Region (2019-2024) & (K Units)

Table 40. APAC Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Region (2019-2024)

Table 41. APAC Vanadium Oxide Infrared Detectors for Civilian Revenue by Region (2019-2024) & (\$ millions)

Table 42. APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024) & (K Units)

Table 43. APAC Vanadium Oxide Infrared Detectors for Civilian Sales by Application (2019-2024) & (K Units)

Table 44. Europe Vanadium Oxide Infrared Detectors for Civilian Sales by Country (2019-2024) & (K Units)

Table 45. Europe Vanadium Oxide Infrared Detectors for Civilian Revenue by Country (2019-2024) & (\$ millions)

Table 46. Europe Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024) & (K Units)

Table 47. Europe Vanadium Oxide Infrared Detectors for Civilian Sales by Application (2019-2024) & (K Units)

Table 48. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales by Country (2019-2024) & (K Units)

Table 49. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Country (2019-2024)

Table 50. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales by Type (2019-2024) & (K Units)

Table 51. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales by Application (2019-2024) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of Vanadium Oxide Infrared Detectors for Civilian

Table 53. Key Market Challenges & Risks of Vanadium Oxide Infrared Detectors for Civilian

Table 54. Key Industry Trends of Vanadium Oxide Infrared Detectors for Civilian

Table 55. Vanadium Oxide Infrared Detectors for Civilian Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Vanadium Oxide Infrared Detectors for Civilian Distributors List

Table 58. Vanadium Oxide Infrared Detectors for Civilian Customer List

Table 59. Global Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Region (2025-2030) & (K Units)

Table 60. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 61. Americas Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Country (2025-2030) & (K Units)

Table 62. Americas Vanadium Oxide Infrared Detectors for Civilian Annual Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 63. APAC Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Region (2025-2030) & (K Units)

Table 64. APAC Vanadium Oxide Infrared Detectors for Civilian Annual Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 65. Europe Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Country (2025-2030) & (K Units)

Table 66. Europe Vanadium Oxide Infrared Detectors for Civilian Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 67. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Country (2025-2030) & (K Units)

Table 68. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 69. Global Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Type (2025-2030) & (K Units)

Table 70. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Forecast by Type (2025-2030) & (\$ millions)

Table 71. Global Vanadium Oxide Infrared Detectors for Civilian Sales Forecast by Application (2025-2030) & (K Units)

Table 72. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Forecast by Application (2025-2030) & (\$ millions)

Table 73. Teledyne FLIR Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 74. Teledyne FLIR Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 75. Teledyne FLIR Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 76. Teledyne FLIR Main Business

Table 77. Teledyne FLIR Latest Developments

Table 78. Raytron Technology Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 79. Raytron Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 80. Raytron Technology Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 81. Raytron Technology Main Business

Table 82. Raytron Technology Latest Developments

Table 83. HIKMICRO Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 84. HIKMICRO Vanadium Oxide Infrared Detectors for Civilian Product Portfolios

and Specifications

Table 85. HIKMICRO Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 86. HIKMICRO Main Business

Table 87. HIKMICRO Latest Developments

Table 88. Wuhan Guide Infrared Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 89. Wuhan Guide Infrared Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 90. Wuhan Guide Infrared Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 91. Wuhan Guide Infrared Main Business

Table 92. Wuhan Guide Infrared Latest Developments

Table 93. BAE Systems Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 94. BAE Systems Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 95. BAE Systems Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 96. BAE Systems Main Business

Table 97. BAE Systems Latest Developments

Table 98. Leonardo DRS Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 99. Leonardo DRS Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 100. Leonardo DRS Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 101. Leonardo DRS Main Business

Table 102. Leonardo DRS Latest Developments

Table 103. Semi Conductor Devices (SCD) Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 104. Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 105. Semi Conductor Devices (SCD) Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 106. Semi Conductor Devices (SCD) Main Business

Table 107. Semi Conductor Devices (SCD) Latest Developments

Table 108. NEC Basic Information, Vanadium Oxide Infrared Detectors for Civilian

Manufacturing Base, Sales Area and Its Competitors

Table 109. NEC Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 110. NEC Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 111. NEC Main Business

Table 112. NEC Latest Developments

Table 113. L3Harris Technologies, Inc. Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 114. L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 115. L3Harris Technologies, Inc. Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 116. L3Harris Technologies, Inc. Main Business

Table 117. L3Harris Technologies, Inc. Latest Developments

Table 118. Zhejiang Dali Technology Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 119. Zhejiang Dali Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 120. Zhejiang Dali Technology Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 121. Zhejiang Dali Technology Main Business

Table 122. Zhejiang Dali Technology Latest Developments

Table 123. North Guangwei Technology Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 124. North Guangwei Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 125. North Guangwei Technology Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 126. North Guangwei Technology Main Business

Table 127. North Guangwei Technology Latest Developments

Table 128. Beijing Fjr Optoelectronic Technology Basic Information, Vanadium Oxide Infrared Detectors for Civilian Manufacturing Base, Sales Area and Its Competitors

Table 129. Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors for Civilian Product Portfolios and Specifications

Table 130. Beijing Fjr Optoelectronic Technology Vanadium Oxide Infrared Detectors for Civilian Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 131. Beijing Fjr Optoelectronic Technology Main Business

Table 132. Beijing Fjr Optoelectronic Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Vanadium Oxide Infrared Detectors for Civilian
- Figure 2. Vanadium Oxide Infrared Detectors for Civilian Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Vanadium Oxide Infrared Detectors for Civilian Sales Growth Rate 2019-2030 (K Units)
- Figure 7. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Growth Rate 2019-2030 (\$ millions)
- Figure 8. Vanadium Oxide Infrared Detectors for Civilian Sales by Geographic Region (2019, 2023 & 2030) & (\$ millions)
- Figure 9. Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country/Region (2023)
- Figure 10. Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country/Region (2019, 2023 & 2030)
- Figure 11. Product Picture of Wafer Level Packaging
- Figure 12. Product Picture of Metal Packaging
- Figure 13. Product Picture of Ceramic Packaging
- Figure 14. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type in 2023
- Figure 15. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Type (2019-2024)
- Figure 16. Vanadium Oxide Infrared Detectors for Civilian Consumed in Business and Public Services
- Figure 17. Global Vanadium Oxide Infrared Detectors for Civilian Market: Business and Public Services (2019-2024) & (K Units)
- Figure 18. Vanadium Oxide Infrared Detectors for Civilian Consumed in Industrial
- Figure 19. Global Vanadium Oxide Infrared Detectors for Civilian Market: Industrial (2019-2024) & (K Units)
- Figure 20. Vanadium Oxide Infrared Detectors for Civilian Consumed in Household Fields
- Figure 21. Global Vanadium Oxide Infrared Detectors for Civilian Market: Household Fields (2019-2024) & (K Units)
- Figure 22. Vanadium Oxide Infrared Detectors for Civilian Consumed in Automotive Fields

Figure 23. Global Vanadium Oxide Infrared Detectors for Civilian Market: Automotive Fields (2019-2024) & (K Units)

Figure 24. Vanadium Oxide Infrared Detectors for Civilian Consumed in Others

Figure 25. Global Vanadium Oxide Infrared Detectors for Civilian Market: Others (2019-2024) & (K Units)

Figure 26. Global Vanadium Oxide Infrared Detectors for Civilian Sale Market Share by Application (2023)

Figure 27. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Application in 2023

Figure 28. Vanadium Oxide Infrared Detectors for Civilian Sales by Company in 2023 (K Units)

Figure 29. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Company in 2023

Figure 30. Vanadium Oxide Infrared Detectors for Civilian Revenue by Company in 2023 (\$ millions)

Figure 31. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Company in 2023

Figure 32. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Geographic Region (2019-2024)

Figure 33. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Geographic Region in 2023

Figure 34. Americas Vanadium Oxide Infrared Detectors for Civilian Sales 2019-2024 (K Units)

Figure 35. Americas Vanadium Oxide Infrared Detectors for Civilian Revenue 2019-2024 (\$ millions)

Figure 36. APAC Vanadium Oxide Infrared Detectors for Civilian Sales 2019-2024 (K Units)

Figure 37. APAC Vanadium Oxide Infrared Detectors for Civilian Revenue 2019-2024 (\$ millions)

Figure 38. Europe Vanadium Oxide Infrared Detectors for Civilian Sales 2019-2024 (K Units)

Figure 39. Europe Vanadium Oxide Infrared Detectors for Civilian Revenue 2019-2024 (\$ millions)

Figure 40. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales 2019-2024 (K Units)

Figure 41. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Revenue 2019-2024 (\$ millions)

Figure 42. Americas Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country in 2023

Figure 43. Americas Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Country (2019-2024)

Figure 44. Americas Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type (2019-2024)

Figure 45. Americas Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Application (2019-2024)

Figure 46. United States Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 47. Canada Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 48. Mexico Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 49. Brazil Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 50. APAC Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Region in 2023

Figure 51. APAC Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share by Region (2019-2024)

Figure 52. APAC Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type (2019-2024)

Figure 53. APAC Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Application (2019-2024)

Figure 54. China Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 55. Japan Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 56. South Korea Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 57. Southeast Asia Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 58. India Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 59. Australia Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 60. China Taiwan Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 61. Europe Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country in 2023

Figure 62. Europe Vanadium Oxide Infrared Detectors for Civilian Revenue Market

Share by Country (2019-2024)

Figure 63. Europe Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type (2019-2024)

Figure 64. Europe Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Application (2019-2024)

Figure 65. Germany Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 66. France Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 67. UK Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 68. Italy Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 69. Russia Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 70. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Country (2019-2024)

Figure 71. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Type (2019-2024)

Figure 72. Middle East & Africa Vanadium Oxide Infrared Detectors for Civilian Sales Market Share by Application (2019-2024)

Figure 73. Egypt Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 74. South Africa Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 75. Israel Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 76. Turkey Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 77. GCC Countries Vanadium Oxide Infrared Detectors for Civilian Revenue Growth 2019-2024 (\$ millions)

Figure 78. Manufacturing Cost Structure Analysis of Vanadium Oxide Infrared Detectors for Civilian in 2023

Figure 79. Manufacturing Process Analysis of Vanadium Oxide Infrared Detectors for Civilian

Figure 80. Industry Chain Structure of Vanadium Oxide Infrared Detectors for Civilian

Figure 81. Channels of Distribution

Figure 82. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Forecast by Region (2025-2030)

Figure 83. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share Forecast by Region (2025-2030)

Figure 84. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share Forecast by Type (2025-2030)

Figure 85. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share Forecast by Type (2025-2030)

Figure 86. Global Vanadium Oxide Infrared Detectors for Civilian Sales Market Share Forecast by Application (2025-2030)

Figure 87. Global Vanadium Oxide Infrared Detectors for Civilian Revenue Market Share Forecast by Application (2025-2030)

I would like to order

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

Product link: <https://marketpublishers.com/r/GC3B7B713E79EN.html>

Price: US\$ 3,660.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GC3B7B713E79EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970