

Global Vehicle Portal Radiation Monitors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Vehicle Portal Radiation Monitors market size is expected to reach \$ 941 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of vehicle portal radiation monitors reached 350,000 units, with an average selling price of \$1,500 per unit. Vehicle portal radiation monitors are devices used to detect and monitor radiation leaks when vehicles enter or leave specific areas. They are widely used in high-security areas such as nuclear power plants, radioactive material storage areas, military areas, and medical waste management sites. These devices utilize highly sensitive radiation detectors, such as gas detectors or semiconductor detectors, to monitor passing vehicles in real time for radiation contamination, ensuring safety management and rapid response. During monitoring, when the device detects radiation exceeding a set threshold, it triggers an alarm and records relevant data to ensure the safety of personnel and the environment.

Upstream raw materials mainly include highly sensitive detectors, semiconductor materials, metal casings, and electronic components. Downstream suppliers primarily serve nuclear power plants, radiation safety management companies, government regulatory agencies, and large logistics companies. Global total production capacity is approximately 500,000 units per year, with an average industry gross profit margin of approximately 30%-40%.

The future lies in the miniaturization and intelligentization of equipment, combining AI and big data analytics to achieve real-time data processing and early warning, and expanding into more fields such as environmental protection, public safety, and urban monitoring. In terms of demand and business opportunities, the market for vehicle portal

radiation monitors will continue to grow as global nuclear safety and radiation monitoring standards improve, especially in developing countries and emerging markets where there is great potential.

The vehicle portal radiation monitor market is experiencing rapid growth, particularly driven by increasingly stringent global regulations on nuclear safety, radiation management, and environmental protection. With the continued development of the nuclear energy industry and the expanding use of radioactive materials, equipment ensuring radiation safety is paramount. Especially in high-risk areas such as nuclear power plants, military bases, and medical radiation treatment facilities, vehicle portal radiation monitors provide real-time monitoring and alarm functions, effectively preventing radiation leaks, protecting personnel safety, and meeting stringent regulatory requirements. Simultaneously, the globalization of the logistics and transportation industry has made ensuring the transport of uncontaminated materials a pressing issue, further driving the application of such equipment in these fields.

Furthermore, intelligent and automated trends are becoming major development directions in this market. Combining artificial intelligence, big data analytics, and cloud computing technologies, modern vehicle portal radiation monitors not only improve monitoring accuracy but also enable remote monitoring and automated alarms, significantly enhancing response speed and decision-making efficiency. In the future, as more countries and regions strengthen their regulatory standards for nuclear safety and radiation monitoring, especially in emerging markets such as the Asia-Pacific and Africa, the demand for efficient and intelligent radiation monitoring equipment will further increase.

Overall, the market prospects for vehicle portal radiation monitors are broad, and the future will be driven by both technological upgrades and market demand. With increasingly stringent safety regulations and growing environmental awareness, this market will become an important component of the nuclear energy, transportation, and public safety sectors, possessing enormous growth potential.

This report studies the global Vehicle Portal Radiation Monitors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Vehicle Portal Radiation Monitors and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Vehicle Portal Radiation

Monitors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Vehicle Portal Radiation Monitors total production and demand, 2021-2032, (K Units)

Global Vehicle Portal Radiation Monitors total production value, 2021-2032, (USD Million)

Global Vehicle Portal Radiation Monitors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Vehicle Portal Radiation Monitors consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Vehicle Portal Radiation Monitors domestic production, consumption, key domestic manufacturers and share

Global Vehicle Portal Radiation Monitors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Vehicle Portal Radiation Monitors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Vehicle Portal Radiation Monitors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Vehicle Portal Radiation Monitors market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LAURUS Systems, Bertin Technologies, ELSE NUCLEAR, Southern Scientific Ltd, Arktis, Polimaster, Ludlum Measurements, Inc., Rapiscan AS&E, Leidos, LUMEL SA, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Vehicle Portal Radiation Monitors market

Detailed Segmentation:

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

forecast year.

Global Vehicle Portal Radiation Monitors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Vehicle Portal Radiation Monitors Market, Segmentation by Type:

Plastic Scintillator

Nal(Tl) Scintillator

Others

Global Vehicle Portal Radiation Monitors Market, Segmentation by Function:

License Plate Recognition

Container Number Recognition

Vehicle Speed Detection

Video Surveillance

Others

Global Vehicle Portal Radiation Monitors Market, Segmentation by Detector Volume:

Detector Volume: 2 x 25L

Detector Volume: 4 x 25L or 50L

Detector Volume: 100L~300L

Global Vehicle Portal Radiation Monitors Market, Segmentation by Application:

Customs Border Crossings

Nuclear Power Plants

Hazardous Waste Transportation

Others

Companies Profiled:

LAURUS Systems

Bertin Technologies

ELSE NUCLEAR

Southern Scientific Ltd

Arktis

Polimaster

Ludlum Measurements, Inc.

Rapiscan AS&E

Leidos

LUMEL SA

Mirion

ATOMTEX

Zytekno

RENJI

AILIFANG

Shanghai Sim-max Technology Co.,Ltd.

Key Questions Answered:

1. How big is the global Vehicle Portal Radiation Monitors market?
2. What is the demand of the global Vehicle Portal Radiation Monitors market?
3. What is the year over year growth of the global Vehicle Portal Radiation Monitors market?
4. What is the production and production value of the global Vehicle Portal Radiation Monitors market?
5. Who are the key producers in the global Vehicle Portal Radiation Monitors market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Vehicle Portal Radiation Monitors Introduction
- 1.2 World Vehicle Portal Radiation Monitors Supply & Forecast
 - 1.2.1 World Vehicle Portal Radiation Monitors Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Vehicle Portal Radiation Monitors Production (2021-2032)
 - 1.2.3 World Vehicle Portal Radiation Monitors Pricing Trends (2021-2032)
- 1.3 World Vehicle Portal Radiation Monitors Production by Region (Based on Production Site)
 - 1.3.1 World Vehicle Portal Radiation Monitors Production Value by Region (2021-2032)
 - 1.3.2 World Vehicle Portal Radiation Monitors Production by Region (2021-2032)
 - 1.3.3 World Vehicle Portal Radiation Monitors Average Price by Region (2021-2032)
 - 1.3.4 North America Vehicle Portal Radiation Monitors Production (2021-2032)
 - 1.3.5 Europe Vehicle Portal Radiation Monitors Production (2021-2032)
 - 1.3.6 China Vehicle Portal Radiation Monitors Production (2021-2032)
 - 1.3.7 Japan Vehicle Portal Radiation Monitors Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Vehicle Portal Radiation Monitors Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Vehicle Portal Radiation Monitors Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Vehicle Portal Radiation Monitors Demand (2021-2032)
- 2.2 World Vehicle Portal Radiation Monitors Consumption by Region
 - 2.2.1 World Vehicle Portal Radiation Monitors Consumption by Region (2021-2026)
 - 2.2.2 World Vehicle Portal Radiation Monitors Consumption Forecast by Region (2027-2032)
- 2.3 United States Vehicle Portal Radiation Monitors Consumption (2021-2032)
- 2.4 China Vehicle Portal Radiation Monitors Consumption (2021-2032)
- 2.5 Europe Vehicle Portal Radiation Monitors Consumption (2021-2032)
- 2.6 Japan Vehicle Portal Radiation Monitors Consumption (2021-2032)
- 2.7 South Korea Vehicle Portal Radiation Monitors Consumption (2021-2032)
- 2.8 ASEAN Vehicle Portal Radiation Monitors Consumption (2021-2032)
- 2.9 India Vehicle Portal Radiation Monitors Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Vehicle Portal Radiation Monitors Production Value by Manufacturer (2021-2026)
- 3.2 World Vehicle Portal Radiation Monitors Production by Manufacturer (2021-2026)
- 3.3 World Vehicle Portal Radiation Monitors Average Price by Manufacturer (2021-2026)
- 3.4 Vehicle Portal Radiation Monitors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Vehicle Portal Radiation Monitors Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Vehicle Portal Radiation Monitors in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Vehicle Portal Radiation Monitors in 2025
- 3.6 Vehicle Portal Radiation Monitors Market: Overall Company Footprint Analysis
 - 3.6.1 Vehicle Portal Radiation Monitors Market: Region Footprint
 - 3.6.2 Vehicle Portal Radiation Monitors Market: Company Product Type Footprint
 - 3.6.3 Vehicle Portal Radiation Monitors Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Vehicle Portal Radiation Monitors Production Value Comparison
 - 4.1.1 United States VS China: Vehicle Portal Radiation Monitors Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Vehicle Portal Radiation Monitors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Vehicle Portal Radiation Monitors Production Comparison
 - 4.2.1 United States VS China: Vehicle Portal Radiation Monitors Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Vehicle Portal Radiation Monitors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Vehicle Portal Radiation Monitors Consumption Comparison

4.3.1 United States VS China: Vehicle Portal Radiation Monitors Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Vehicle Portal Radiation Monitors Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Vehicle Portal Radiation Monitors Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Vehicle Portal Radiation Monitors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Vehicle Portal Radiation Monitors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Vehicle Portal Radiation Monitors Production (2021-2026)

4.5 China Based Vehicle Portal Radiation Monitors Manufacturers and Market Share

4.5.1 China Based Vehicle Portal Radiation Monitors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Vehicle Portal Radiation Monitors Production Value (2021-2026)

4.5.3 China Based Manufacturers Vehicle Portal Radiation Monitors Production (2021-2026)

4.6 Rest of World Based Vehicle Portal Radiation Monitors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Vehicle Portal Radiation Monitors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Vehicle Portal Radiation Monitors Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Plastic Scintillator

5.2.2 NaI(Tl) Scintillator

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Vehicle Portal Radiation Monitors Production by Type (2021-2032)

5.3.2 World Vehicle Portal Radiation Monitors Production Value by Type (2021-2032)

5.3.3 World Vehicle Portal Radiation Monitors Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FUNCTION

6.1 World Vehicle Portal Radiation Monitors Market Size Overview by Function: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Function

6.2.1 License Plate Recognition

6.2.2 Container Number Recognition

6.2.3 Vehicle Speed Detection

6.2.4 Video Surveillance

6.2.5 Others

6.3 Market Segment by Function

6.3.1 World Vehicle Portal Radiation Monitors Production by Function (2021-2032)

6.3.2 World Vehicle Portal Radiation Monitors Production Value by Function (2021-2032)

6.3.3 World Vehicle Portal Radiation Monitors Average Price by Function (2021-2032)

7 MARKET ANALYSIS BY DETECTOR VOLUME

7.1 World Vehicle Portal Radiation Monitors Market Size Overview by Detector Volume: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Detector Volume

7.2.1 Detector Volume: 2 x 25L

7.2.2 Detector Volume: 4 x 25L or 50L

7.2.3 Detector Volume: 100L~300L

7.3 Market Segment by Detector Volume

7.3.1 World Vehicle Portal Radiation Monitors Production by Detector Volume (2021-2032)

7.3.2 World Vehicle Portal Radiation Monitors Production Value by Detector Volume (2021-2032)

7.3.3 World Vehicle Portal Radiation Monitors Average Price by Detector Volume (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Vehicle Portal Radiation Monitors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Customs Border Crossings
- 8.2.2 Nuclear Power Plants
- 8.2.3 Hazardous Waste Transportation
- 8.2.4 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Vehicle Portal Radiation Monitors Production by Application (2021-2032)
 - 8.3.2 World Vehicle Portal Radiation Monitors Production Value by Application (2021-2032)
 - 8.3.3 World Vehicle Portal Radiation Monitors Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 LAURUS Systems

- 9.1.1 LAURUS Systems Details
- 9.1.2 LAURUS Systems Major Business
- 9.1.3 LAURUS Systems Vehicle Portal Radiation Monitors Product and Services
- 9.1.4 LAURUS Systems Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 LAURUS Systems Recent Developments/Updates
- 9.1.6 LAURUS Systems Competitive Strengths & Weaknesses

9.2 Bertin Technologies

- 9.2.1 Bertin Technologies Details
- 9.2.2 Bertin Technologies Major Business
- 9.2.3 Bertin Technologies Vehicle Portal Radiation Monitors Product and Services
- 9.2.4 Bertin Technologies Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Bertin Technologies Recent Developments/Updates
- 9.2.6 Bertin Technologies Competitive Strengths & Weaknesses

9.3 ELSE NUCLEAR

- 9.3.1 ELSE NUCLEAR Details
- 9.3.2 ELSE NUCLEAR Major Business
- 9.3.3 ELSE NUCLEAR Vehicle Portal Radiation Monitors Product and Services
- 9.3.4 ELSE NUCLEAR Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 ELSE NUCLEAR Recent Developments/Updates
- 9.3.6 ELSE NUCLEAR Competitive Strengths & Weaknesses

9.4 Southern Scientific Ltd

- 9.4.1 Southern Scientific Ltd Details

- 9.4.2 Southern Scientific Ltd Major Business
- 9.4.3 Southern Scientific Ltd Vehicle Portal Radiation Monitors Product and Services
- 9.4.4 Southern Scientific Ltd Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Southern Scientific Ltd Recent Developments/Updates
- 9.4.6 Southern Scientific Ltd Competitive Strengths & Weaknesses
- 9.5 Arktis
 - 9.5.1 Arktis Details
 - 9.5.2 Arktis Major Business
 - 9.5.3 Arktis Vehicle Portal Radiation Monitors Product and Services
 - 9.5.4 Arktis Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Arktis Recent Developments/Updates
 - 9.5.6 Arktis Competitive Strengths & Weaknesses
- 9.6 Polimaster
 - 9.6.1 Polimaster Details
 - 9.6.2 Polimaster Major Business
 - 9.6.3 Polimaster Vehicle Portal Radiation Monitors Product and Services
 - 9.6.4 Polimaster Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Polimaster Recent Developments/Updates
 - 9.6.6 Polimaster Competitive Strengths & Weaknesses
- 9.7 Ludlum Measurements, Inc.
 - 9.7.1 Ludlum Measurements, Inc. Details
 - 9.7.2 Ludlum Measurements, Inc. Major Business
 - 9.7.3 Ludlum Measurements, Inc. Vehicle Portal Radiation Monitors Product and Services
 - 9.7.4 Ludlum Measurements, Inc. Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ludlum Measurements, Inc. Recent Developments/Updates
 - 9.7.6 Ludlum Measurements, Inc. Competitive Strengths & Weaknesses
- 9.8 Rapiscan AS&E
 - 9.8.1 Rapiscan AS&E Details
 - 9.8.2 Rapiscan AS&E Major Business
 - 9.8.3 Rapiscan AS&E Vehicle Portal Radiation Monitors Product and Services
 - 9.8.4 Rapiscan AS&E Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Rapiscan AS&E Recent Developments/Updates
 - 9.8.6 Rapiscan AS&E Competitive Strengths & Weaknesses

9.9 Leidos

9.9.1 Leidos Details

9.9.2 Leidos Major Business

9.9.3 Leidos Vehicle Portal Radiation Monitors Product and Services

9.9.4 Leidos Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Leidos Recent Developments/Updates

9.9.6 Leidos Competitive Strengths & Weaknesses

9.10 LUMEL SA

9.10.1 LUMEL SA Details

9.10.2 LUMEL SA Major Business

9.10.3 LUMEL SA Vehicle Portal Radiation Monitors Product and Services

9.10.4 LUMEL SA Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 LUMEL SA Recent Developments/Updates

9.10.6 LUMEL SA Competitive Strengths & Weaknesses

9.11 Mirion

9.11.1 Mirion Details

9.11.2 Mirion Major Business

9.11.3 Mirion Vehicle Portal Radiation Monitors Product and Services

9.11.4 Mirion Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Mirion Recent Developments/Updates

9.11.6 Mirion Competitive Strengths & Weaknesses

9.12 ATOMTEX

9.12.1 ATOMTEX Details

9.12.2 ATOMTEX Major Business

9.12.3 ATOMTEX Vehicle Portal Radiation Monitors Product and Services

9.12.4 ATOMTEX Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 ATOMTEX Recent Developments/Updates

9.12.6 ATOMTEX Competitive Strengths & Weaknesses

9.13 Zytekno

9.13.1 Zytekno Details

9.13.2 Zytekno Major Business

9.13.3 Zytekno Vehicle Portal Radiation Monitors Product and Services

9.13.4 Zytekno Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Zytekno Recent Developments/Updates

9.13.6 Zytekno Competitive Strengths & Weaknesses

9.14 RENJI

9.14.1 RENJI Details

9.14.2 RENJI Major Business

9.14.3 RENJI Vehicle Portal Radiation Monitors Product and Services

9.14.4 RENJI Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 RENJI Recent Developments/Updates

9.14.6 RENJI Competitive Strengths & Weaknesses

9.15 AILIFANG

9.15.1 AILIFANG Details

9.15.2 AILIFANG Major Business

9.15.3 AILIFANG Vehicle Portal Radiation Monitors Product and Services

9.15.4 AILIFANG Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 AILIFANG Recent Developments/Updates

9.15.6 AILIFANG Competitive Strengths & Weaknesses

9.16 Shanghai Sim-max Technology Co.,Ltd.

9.16.1 Shanghai Sim-max Technology Co.,Ltd. Details

9.16.2 Shanghai Sim-max Technology Co.,Ltd. Major Business

9.16.3 Shanghai Sim-max Technology Co.,Ltd. Vehicle Portal Radiation Monitors Product and Services

9.16.4 Shanghai Sim-max Technology Co.,Ltd. Vehicle Portal Radiation Monitors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Shanghai Sim-max Technology Co.,Ltd. Recent Developments/Updates

9.16.6 Shanghai Sim-max Technology Co.,Ltd. Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Vehicle Portal Radiation Monitors Industry Chain

10.2 Vehicle Portal Radiation Monitors Upstream Analysis

10.2.1 Vehicle Portal Radiation Monitors Core Raw Materials

10.2.2 Main Manufacturers of Vehicle Portal Radiation Monitors Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Vehicle Portal Radiation Monitors Production Mode

10.6 Vehicle Portal Radiation Monitors Procurement Model

10.7 Vehicle Portal Radiation Monitors Industry Sales Model and Sales Channels

10.7.1 Vehicle Portal Radiation Monitors Sales Model

10.7.2 Vehicle Portal Radiation Monitors Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Vehicle Portal Radiation Monitors Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Vehicle Portal Radiation Monitors Production Value by Region (2021-2026) & (USD Million)

Table 3. World Vehicle Portal Radiation Monitors Production Value by Region (2027-2032) & (USD Million)

Table 4. World Vehicle Portal Radiation Monitors Production Value Market Share by Region (2021-2026)

Table 5. World Vehicle Portal Radiation Monitors Production Value Market Share by Region (2027-2032)

Table 6. World Vehicle Portal Radiation Monitors Production by Region (2021-2026) & (K Units)

Table 7. World Vehicle Portal Radiation Monitors Production by Region (2027-2032) & (K Units)

Table 8. World Vehicle Portal Radiation Monitors Production Market Share by Region (2021-2026)

Table 9. World Vehicle Portal Radiation Monitors Production Market Share by Region (2027-2032)

Table 10. World Vehicle Portal Radiation Monitors Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Vehicle Portal Radiation Monitors Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Vehicle Portal Radiation Monitors Major Market Trends

Table 13. World Vehicle Portal Radiation Monitors Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Vehicle Portal Radiation Monitors Consumption by Region (2021-2026) & (K Units)

Table 15. World Vehicle Portal Radiation Monitors Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Vehicle Portal Radiation Monitors Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Vehicle Portal Radiation Monitors Producers in 2025

Table 18. World Vehicle Portal Radiation Monitors Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Vehicle Portal Radiation Monitors Producers in 2025

Table 20. World Vehicle Portal Radiation Monitors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Vehicle Portal Radiation Monitors Company Evaluation Quadrant

Table 22. World Vehicle Portal Radiation Monitors Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Vehicle Portal Radiation Monitors Production Site of Key Manufacturer

Table 24. Vehicle Portal Radiation Monitors Market: Company Product Type Footprint

Table 25. Vehicle Portal Radiation Monitors Market: Company Product Application Footprint

Table 26. Vehicle Portal Radiation Monitors Competitive Factors

Table 27. Vehicle Portal Radiation Monitors New Entrant and Capacity Expansion Plans

Table 28. Vehicle Portal Radiation Monitors Mergers & Acquisitions Activity

Table 29. United States VS China Vehicle Portal Radiation Monitors Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Vehicle Portal Radiation Monitors Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Vehicle Portal Radiation Monitors Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Vehicle Portal Radiation Monitors Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Vehicle Portal Radiation Monitors Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Vehicle Portal Radiation Monitors Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Vehicle Portal Radiation Monitors Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Vehicle Portal Radiation Monitors Production Market Share (2021-2026)

Table 37. China Based Vehicle Portal Radiation Monitors Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Vehicle Portal Radiation Monitors Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Vehicle Portal Radiation Monitors Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Vehicle Portal Radiation Monitors Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Vehicle Portal Radiation Monitors Production Market Share (2021-2026)

Table 42. Rest of World Based Vehicle Portal Radiation Monitors Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production Market Share (2021-2026)

Table 47. World Vehicle Portal Radiation Monitors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Vehicle Portal Radiation Monitors Production by Type (2021-2026) & (K Units)

Table 49. World Vehicle Portal Radiation Monitors Production by Type (2027-2032) & (K Units)

Table 50. World Vehicle Portal Radiation Monitors Production Value by Type (2021-2026) & (USD Million)

Table 51. World Vehicle Portal Radiation Monitors Production Value by Type (2027-2032) & (USD Million)

Table 52. World Vehicle Portal Radiation Monitors Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Vehicle Portal Radiation Monitors Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Vehicle Portal Radiation Monitors Production Value by Function, (USD Million), 2021 & 2025 & 2032

Table 55. World Vehicle Portal Radiation Monitors Production by Function (2021-2026) & (K Units)

Table 56. World Vehicle Portal Radiation Monitors Production by Function (2027-2032) & (K Units)

Table 57. World Vehicle Portal Radiation Monitors Production Value by Function (2021-2026) & (USD Million)

Table 58. World Vehicle Portal Radiation Monitors Production Value by Function (2027-2032) & (USD Million)

Table 59. World Vehicle Portal Radiation Monitors Average Price by Function (2021-2026) & (US\$/Unit)

Table 60. World Vehicle Portal Radiation Monitors Average Price by Function

(2027-2032) & (US\$/Unit)

Table 61. World Vehicle Portal Radiation Monitors Production Value by Detector Volume, (USD Million), 2021 & 2025 & 2032

Table 62. World Vehicle Portal Radiation Monitors Production by Detector Volume (2021-2026) & (K Units)

Table 63. World Vehicle Portal Radiation Monitors Production by Detector Volume (2027-2032) & (K Units)

Table 64. World Vehicle Portal Radiation Monitors Production Value by Detector Volume (2021-2026) & (USD Million)

Table 65. World Vehicle Portal Radiation Monitors Production Value by Detector Volume (2027-2032) & (USD Million)

Table 66. World Vehicle Portal Radiation Monitors Average Price by Detector Volume (2021-2026) & (US\$/Unit)

Table 67. World Vehicle Portal Radiation Monitors Average Price by Detector Volume (2027-2032) & (US\$/Unit)

Table 68. World Vehicle Portal Radiation Monitors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Vehicle Portal Radiation Monitors Production by Application (2021-2026) & (K Units)

Table 70. World Vehicle Portal Radiation Monitors Production by Application (2027-2032) & (K Units)

Table 71. World Vehicle Portal Radiation Monitors Production Value by Application (2021-2026) & (USD Million)

Table 72. World Vehicle Portal Radiation Monitors Production Value by Application (2027-2032) & (USD Million)

Table 73. World Vehicle Portal Radiation Monitors Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Vehicle Portal Radiation Monitors Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. LAURUS Systems Basic Information, Manufacturing Base and Competitors

Table 76. LAURUS Systems Major Business

Table 77. LAURUS Systems Vehicle Portal Radiation Monitors Product and Services

Table 78. LAURUS Systems Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. LAURUS Systems Recent Developments/Updates

Table 80. LAURUS Systems Competitive Strengths & Weaknesses

Table 81. Bertin Technologies Basic Information, Manufacturing Base and Competitors

Table 82. Bertin Technologies Major Business

Table 83. Bertin Technologies Vehicle Portal Radiation Monitors Product and Services

Table 84. Bertin Technologies Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Bertin Technologies Recent Developments/Updates

Table 86. Bertin Technologies Competitive Strengths & Weaknesses

Table 87. ELSE NUCLEAR Basic Information, Manufacturing Base and Competitors

Table 88. ELSE NUCLEAR Major Business

Table 89. ELSE NUCLEAR Vehicle Portal Radiation Monitors Product and Services

Table 90. ELSE NUCLEAR Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ELSE NUCLEAR Recent Developments/Updates

Table 92. ELSE NUCLEAR Competitive Strengths & Weaknesses

Table 93. Southern Scientific Ltd Basic Information, Manufacturing Base and Competitors

Table 94. Southern Scientific Ltd Major Business

Table 95. Southern Scientific Ltd Vehicle Portal Radiation Monitors Product and Services

Table 96. Southern Scientific Ltd Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Southern Scientific Ltd Recent Developments/Updates

Table 98. Southern Scientific Ltd Competitive Strengths & Weaknesses

Table 99. Arktis Basic Information, Manufacturing Base and Competitors

Table 100. Arktis Major Business

Table 101. Arktis Vehicle Portal Radiation Monitors Product and Services

Table 102. Arktis Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Arktis Recent Developments/Updates

Table 104. Arktis Competitive Strengths & Weaknesses

Table 105. Polimaster Basic Information, Manufacturing Base and Competitors

Table 106. Polimaster Major Business

Table 107. Polimaster Vehicle Portal Radiation Monitors Product and Services

Table 108. Polimaster Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Polimaster Recent Developments/Updates

Table 110. Polimaster Competitive Strengths & Weaknesses

Table 111. Ludlum Measurements, Inc. Basic Information, Manufacturing Base and Competitors

Table 112. Ludlum Measurements, Inc. Major Business

Table 113. Ludlum Measurements, Inc. Vehicle Portal Radiation Monitors Product and Services

Table 114. Ludlum Measurements, Inc. Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Ludlum Measurements, Inc. Recent Developments/Updates

Table 116. Ludlum Measurements, Inc. Competitive Strengths & Weaknesses

Table 117. Rapiscan AS&E Basic Information, Manufacturing Base and Competitors

Table 118. Rapiscan AS&E Major Business

Table 119. Rapiscan AS&E Vehicle Portal Radiation Monitors Product and Services

Table 120. Rapiscan AS&E Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Rapiscan AS&E Recent Developments/Updates

Table 122. Rapiscan AS&E Competitive Strengths & Weaknesses

Table 123. Leidos Basic Information, Manufacturing Base and Competitors

Table 124. Leidos Major Business

Table 125. Leidos Vehicle Portal Radiation Monitors Product and Services

Table 126. Leidos Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Leidos Recent Developments/Updates

Table 128. Leidos Competitive Strengths & Weaknesses

Table 129. LUMEL SA Basic Information, Manufacturing Base and Competitors

Table 130. LUMEL SA Major Business

Table 131. LUMEL SA Vehicle Portal Radiation Monitors Product and Services

Table 132. LUMEL SA Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. LUMEL SA Recent Developments/Updates

Table 134. LUMEL SA Competitive Strengths & Weaknesses

Table 135. Mirion Basic Information, Manufacturing Base and Competitors

Table 136. Mirion Major Business

Table 137. Mirion Vehicle Portal Radiation Monitors Product and Services

Table 138. Mirion Vehicle Portal Radiation Monitors Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Mirion Recent Developments/Updates

Table 140. Mirion Competitive Strengths & Weaknesses

Table 141. ATOMTEX Basic Information, Manufacturing Base and Competitors

Table 142. ATOMTEX Major Business

Table 143. ATOMTEX Vehicle Portal Radiation Monitors Product and Services

Table 144. ATOMTEX Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. ATOMTEX Recent Developments/Updates

Table 146. ATOMTEX Competitive Strengths & Weaknesses

Table 147. Zytekno Basic Information, Manufacturing Base and Competitors

Table 148. Zytekno Major Business

Table 149. Zytekno Vehicle Portal Radiation Monitors Product and Services

Table 150. Zytekno Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Zytekno Recent Developments/Updates

Table 152. Zytekno Competitive Strengths & Weaknesses

Table 153. RENJI Basic Information, Manufacturing Base and Competitors

Table 154. RENJI Major Business

Table 155. RENJI Vehicle Portal Radiation Monitors Product and Services

Table 156. RENJI Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. RENJI Recent Developments/Updates

Table 158. RENJI Competitive Strengths & Weaknesses

Table 159. AILIFANG Basic Information, Manufacturing Base and Competitors

Table 160. AILIFANG Major Business

Table 161. AILIFANG Vehicle Portal Radiation Monitors Product and Services

Table 162. AILIFANG Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. AILIFANG Recent Developments/Updates

Table 164. AILIFANG Competitive Strengths & Weaknesses

Table 165. Shanghai Sim-max Technology Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Shanghai Sim-max Technology Co.,Ltd. Major Business

Table 167. Shanghai Sim-max Technology Co.,Ltd. Vehicle Portal Radiation Monitors Product and Services

Table 168. Shanghai Sim-max Technology Co.,Ltd. Vehicle Portal Radiation Monitors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Shanghai Sim-max Technology Co.,Ltd. Recent Developments/Updates

Table 170. Shanghai Sim-max Technology Co.,Ltd. Competitive Strengths & Weaknesses

Table 171. Global Key Players of Vehicle Portal Radiation Monitors Upstream (Raw Materials)

Table 172. Global Vehicle Portal Radiation Monitors Typical Customers

Table 173. Vehicle Portal Radiation Monitors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Vehicle Portal Radiation Monitors Picture

Figure 2. World Vehicle Portal Radiation Monitors Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Vehicle Portal Radiation Monitors Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Vehicle Portal Radiation Monitors Production (2021-2032) & (K Units)

Figure 5. World Vehicle Portal Radiation Monitors Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Vehicle Portal Radiation Monitors Production Value Market Share by Region (2021-2032)

Figure 7. World Vehicle Portal Radiation Monitors Production Market Share by Region (2021-2032)

Figure 8. North America Vehicle Portal Radiation Monitors Production (2021-2032) & (K Units)

Figure 9. Europe Vehicle Portal Radiation Monitors Production (2021-2032) & (K Units)

Figure 10. China Vehicle Portal Radiation Monitors Production (2021-2032) & (K Units)

Figure 11. Japan Vehicle Portal Radiation Monitors Production (2021-2032) & (K Units)

Figure 12. Vehicle Portal Radiation Monitors Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 15. World Vehicle Portal Radiation Monitors Consumption Market Share by Region (2021-2032)

Figure 16. United States Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 17. China Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 18. Europe Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 19. Japan Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 20. South Korea Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 22. India Vehicle Portal Radiation Monitors Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Vehicle Portal Radiation Monitors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Vehicle Portal Radiation Monitors Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Vehicle Portal Radiation Monitors Markets in 2025

Figure 26. United States VS China: Vehicle Portal Radiation Monitors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Vehicle Portal Radiation Monitors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Vehicle Portal Radiation Monitors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Vehicle Portal Radiation Monitors Production Market Share 2025

Figure 30. China Based Manufacturers Vehicle Portal Radiation Monitors Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Vehicle Portal Radiation Monitors Production Market Share 2025

Figure 32. World Vehicle Portal Radiation Monitors Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Vehicle Portal Radiation Monitors Production Value Market Share by Type in 2025

Figure 34. Plastic Scintillator

Figure 35. NaI(Tl) Scintillator

Figure 36. Others

Figure 37. World Vehicle Portal Radiation Monitors Production Market Share by Type (2021-2032)

Figure 38. World Vehicle Portal Radiation Monitors Production Value Market Share by Type (2021-2032)

Figure 39. World Vehicle Portal Radiation Monitors Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Vehicle Portal Radiation Monitors Production Value by Function, (USD Million), 2021 & 2025 & 2032

Figure 41. World Vehicle Portal Radiation Monitors Production Value Market Share by Function in 2025

Figure 42. License Plate Recognition

Figure 43. Container Number Recognition

Figure 44. Vehicle Speed Detection

Figure 45. Video Surveillance

Figure 46. Others

Figure 47. World Vehicle Portal Radiation Monitors Production Market Share by Function (2021-2032)

Figure 48. World Vehicle Portal Radiation Monitors Production Value Market Share by Function (2021-2032)

Figure 49. World Vehicle Portal Radiation Monitors Average Price by Function (2021-2032) & (US\$/Unit)

Figure 50. World Vehicle Portal Radiation Monitors Production Value by Detector Volume, (USD Million), 2021 & 2025 & 2032

Figure 51. World Vehicle Portal Radiation Monitors Production Value Market Share by Detector Volume in 2025

Figure 52. Detector Volume: 2 x 25L

Figure 53. Detector Volume: 4 x 25L or 50L

Figure 54. Detector Volume: 100L~300L

Figure 55. World Vehicle Portal Radiation Monitors Production Market Share by Detector Volume (2021-2032)

Figure 56. World Vehicle Portal Radiation Monitors Production Value Market Share by Detector Volume (2021-2032)

Figure 57. World Vehicle Portal Radiation Monitors Average Price by Detector Volume (2021-2032) & (US\$/Unit)

Figure 58. World Vehicle Portal Radiation Monitors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World Vehicle Portal Radiation Monitors Production Value Market Share by Application in 2025

Figure 60. Customs Border Crossings

Figure 61. Nuclear Power Plants

Figure 62. Hazardous Waste Transportation

Figure 63. Others

Figure 64. World Vehicle Portal Radiation Monitors Production Market Share by Application (2021-2032)

Figure 65. World Vehicle Portal Radiation Monitors Production Value Market Share by Application (2021-2032)

Figure 66. World Vehicle Portal Radiation Monitors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 67. Vehicle Portal Radiation Monitors Industry Chain

Figure 68. Vehicle Portal Radiation Monitors Procurement Model

Figure 69. Vehicle Portal Radiation Monitors Sales Model

Figure 70. Vehicle Portal Radiation Monitors Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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