

Global Radiation Detection UGVs Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GFE49AD780C3EN.html>

Date: June 2026

Pages: 122

Price: US\$ 4,480.00 (Single User License)

ID: GFE49AD780C3EN

Abstracts

The global Radiation Detection UGVs market size is expected to reach \$ 7466 million by 2032, rising at a market growth of 9.0% CAGR during the forecast period (2026-2032).

In 2025, global Radiation Detection UGVs production reached approximately 8 K units, with an average global market price of around US\$ 50,000 per unit. Annual production capacity is 10 K units. Gross Profit Margin: 39%. Radiation Detection UGVs are remote-controlled or autonomous ground robots equipped with radiation sensors used to detect, map, and monitor ionizing radiation (alpha, beta, gamma, neutron) in hazardous environments where human access is unsafe. The radiation detection UGV industry chain consists of upstream sensor and component suppliers (radiation detectors, LiDAR, chips, and communication modules), midstream UGV manufacturers and integrators that design and build robotic platforms?such as Boston Dynamics, QinetiQ, and Milrem Robotics?and downstream end users including nuclear power plants, defense agencies, mining companies, and environmental monitoring authorities deploying these robots for hazardous radiation mapping and inspection. This market is fundamentally defense- and regulation-driven rather than consumer-driven, meaning growth is steady but highly program-based.

This report studies the global Radiation Detection UGVs production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Radiation Detection UGVs 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 Radiation Detection UGVs that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Radiation Detection UGVs total production and demand, 2021-2032, (Units)

Global Radiation Detection UGVs total production value, 2021-2032, (USD Million)

Global Radiation Detection UGVs production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Radiation Detection UGVs consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Radiation Detection UGVs domestic production, consumption, key domestic manufacturers and share

Global Radiation Detection UGVs production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Radiation Detection UGVs production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Radiation Detection UGVs production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Radiation Detection UGVs 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 Lockheed Martin (NYSE: LMT, USA), Northrop Grumman (NYSE: NOC, USA), General Dynamics (NYSE: GD, USA), AeroVironment (NASDAQ: AVAV, USA), Teledyne Technologies (NYSE: TDY, USA), QinetiQ Group (LSE: QQ, UK), Elbit Systems (NASDAQ: ESLT, Israel), BAE Systems (LSE: BA, UK), Thales Group (EPA: HO, France), Saab AB (STO: SAAB B, Sweden), 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 Radiation Detection UGVs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Radiation Detection UGVs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiation Detection UGVs Market, Segmentation by Type:

Small Inspection UGVs

Medium Industrial UGVs

Heavy-Duty Autonomous UGVs

Global Radiation Detection UGVs Market, Segmentation by Sensor Payload:

Gamma Radiation Detection

Neutron Detection Systems

Alpha/Beta Particle Sensors

Multi-Sensor Fusion (Radiation + Gas + Thermal + LiDAR)

Global Radiation Detection UGVs Market, Segmentation by Autonomy Level:

- Remote-Controlled (Teleoperated)
- Semi-Autonomous Navigation
- Fully Autonomous Mapping (AI + SLAM)

Global Radiation Detection UGVs Market, Segmentation by Application:

- Government & Defense Agencies
- Nuclear Power Industry
- Mining & Energy Companies
- Environmental Monitoring Institutions

Companies Profiled:

- Lockheed Martin (NYSE: LMT, USA)
- Northrop Grumman (NYSE: NOC, USA)
- General Dynamics (NYSE: GD, USA)
- AeroVironment (NASDAQ: AVAV, USA)
- Teledyne Technologies (NYSE: TDY, USA)
- QinetiQ Group (LSE: QQ, UK)
- Elbit Systems (NASDAQ: ESLT, Israel)
- BAE Systems (LSE: BA, UK)

Thales Group (EPA: HO, France)

Saab AB (STO: SAAB B, Sweden)

NORINCO (China North Industries) (SSE: 601117, China)

CETC (China Electronics Technology Group) (State-owned, China)

China Aerospace Science and Industry Corp (CASIC) (State-owned, China)

China Aerospace Science and Technology Corp (CASC) (State-owned, China)

Key Questions Answered:

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

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