

Global Chemical/Biological Detection Robots Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Chemical/Biological Detection Robots market size was valued at US\$ 20744 million in 2025 and is forecast to a readjusted size of US\$ 32167 million by 2032 with a CAGR of 6.4% during review period.

In 2025, global Chemical/Biological Detection Robots production reached approximately 0.4 million units, with an average global market price of around US\$ 50,000 per unit. Annual production capacity is 0.5 million units. Gross Profit Margin: 40%.

Chemical/Biological Detection Robots are autonomous or remotely operated robots (UGVs, UAVs, or hybrid systems) equipped with chemical sensors, biosensors, and sampling systems to detect hazardous chemical agents, toxic industrial chemicals (TICs), or biological threats (pathogens, toxins, aerosols) in unsafe environments. The chemical/biological detection robot industry chain starts with upstream sensor and analytical component suppliers (chemical gas sensors, biosensors, spectrometers, and microfluidic lab-on-chip modules), followed by midstream robotics manufacturers and system integrators that embed detection payloads into UGVs and UAVs?such as QinetiQ, BAE Systems, and Rheinmetall?and finally downstream end users including military CBRN units, homeland security agencies, chemical plants, oil & gas facilities, and emergency response organizations that deploy these systems for real-time hazard detection and containment. The industry?s core evolution is from single-gas detection devices ? multi-modal autonomous sensing platforms.

This report is a detailed and comprehensive analysis for global Chemical/Biological Detection Robots market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Chemical/Biological Detection Robots market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Chemical/Biological Detection Robots market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Chemical/Biological Detection Robots market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Chemical/Biological Detection Robots market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Chemical/Biological Detection Robots

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Chemical/Biological Detection Robots market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Honeywell (NASDAQ: HON, USA), Teledyne FLIR (part of Teledyne Technologies, NYSE: TDY, USA), Boston Dynamics (USA), QinetiQ North America (USA/UK), Bertin Technologies (France),

Smiths Group (LSE: SMIN, UK), REBIO Group (France), Lockheed Martin (NYSE: LMT, USA), Elbit Systems (TASE: ESLT, Israel), Rheinmetall (ETR: RHM, Germany), etc.

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

Market Segmentation

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

Market segment by Type

Ground Robots (UGVs)

Aerial Drones (UAVs)

Hybrid Multi-Robot Systems

Market segment by Detection Capability

Chemical Gas Detection (VOC, Toxic Industrial Chemicals)

Biological Detection (Bioaerosols, Pathogens, DNA/RNA Sampling)

Multi-Agent Detection Systems (Chemical + Biological + Radiation)

Spectroscopy-Based Detection (FTIR, Raman, MS Systems)

Market segment by Autonomy Level

Teleoperated Systems (Remote-Controlled)

Semi-Autonomous Navigation (Assisted Mapping & Patrol)

Fully Autonomous AI Systems (Real-Time Detection + Decision Support)

Market segment by Application

Defense & Homeland Security

Chemical & Petrochemical Industry

Environmental & Public Health Agencies

Emergency Response & Fire Departments

Major players covered

Honeywell (NASDAQ: HON, USA)

Teledyne FLIR (part of Teledyne Technologies, NYSE: TDY, USA)

Boston Dynamics (USA)

QinetiQ North America (USA/UK)

Bertin Technologies (France)

Smiths Group (LSE: SMIN, UK)

REBIO Group (France)

Lockheed Martin (NYSE: LMT, USA)

Elbit Systems (TASE: ESLT, Israel)

Rheinmetall (ETR: RHM, Germany)

China Electronics Technology Group (CETC, China)

NORINCO (China)

Unitree Robotics (China)

UBtech Robotics (China)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

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

Chapter 1, to describe Chemical/Biological Detection Robots product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Chemical/Biological Detection Robots, with price, sales quantity, revenue, and global market share of Chemical/Biological Detection Robots from 2021 to 2026.

Chapter 3, the Chemical/Biological Detection Robots competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Chemical/Biological Detection Robots breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales

market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Chemical/Biological Detection Robots market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Chemical/Biological Detection Robots.

Chapter 14 and 15, to describe Chemical/Biological Detection Robots sales channel, distributors, customers, research findings and conclusion.

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