

Global Chemical/Biological Detection Robots Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chemical/Biological Detection Robots market size is expected to reach \$ 32167 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

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 studies the global Chemical/Biological Detection Robots production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chemical/Biological Detection Robots 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 Chemical/Biological Detection Robots that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Chemical/Biological Detection Robots total production and demand, 2021-2032, (K Units)

Global Chemical/Biological Detection Robots total production value, 2021-2032, (USD Million)

Global Chemical/Biological Detection Robots production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Chemical/Biological Detection Robots consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Chemical/Biological Detection Robots domestic production, consumption, key domestic manufacturers and share

Global Chemical/Biological Detection Robots production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Chemical/Biological Detection Robots production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Chemical/Biological Detection Robots production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Chemical/Biological Detection Robots 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Chemical/Biological Detection Robots 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 Chemical/Biological Detection Robots Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chemical/Biological Detection Robots Market, Segmentation by Type:

Ground Robots (UGVs)

Aerial Drones (UAVs)

Hybrid Multi-Robot Systems

Global Chemical/Biological Detection Robots Market, Segmentation 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)

Global Chemical/Biological Detection Robots Market, Segmentation by Autonomy Level:

Teleoperated Systems (Remote-Controlled)

Semi-Autonomous Navigation (Assisted Mapping & Patrol)

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

Global Chemical/Biological Detection Robots Market, Segmentation by Application:

Defense & Homeland Security

Chemical & Petrochemical Industry

Environmental & Public Health Agencies

Emergency Response & Fire Departments

Companies Profiled:

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)

Key Questions Answered:

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

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